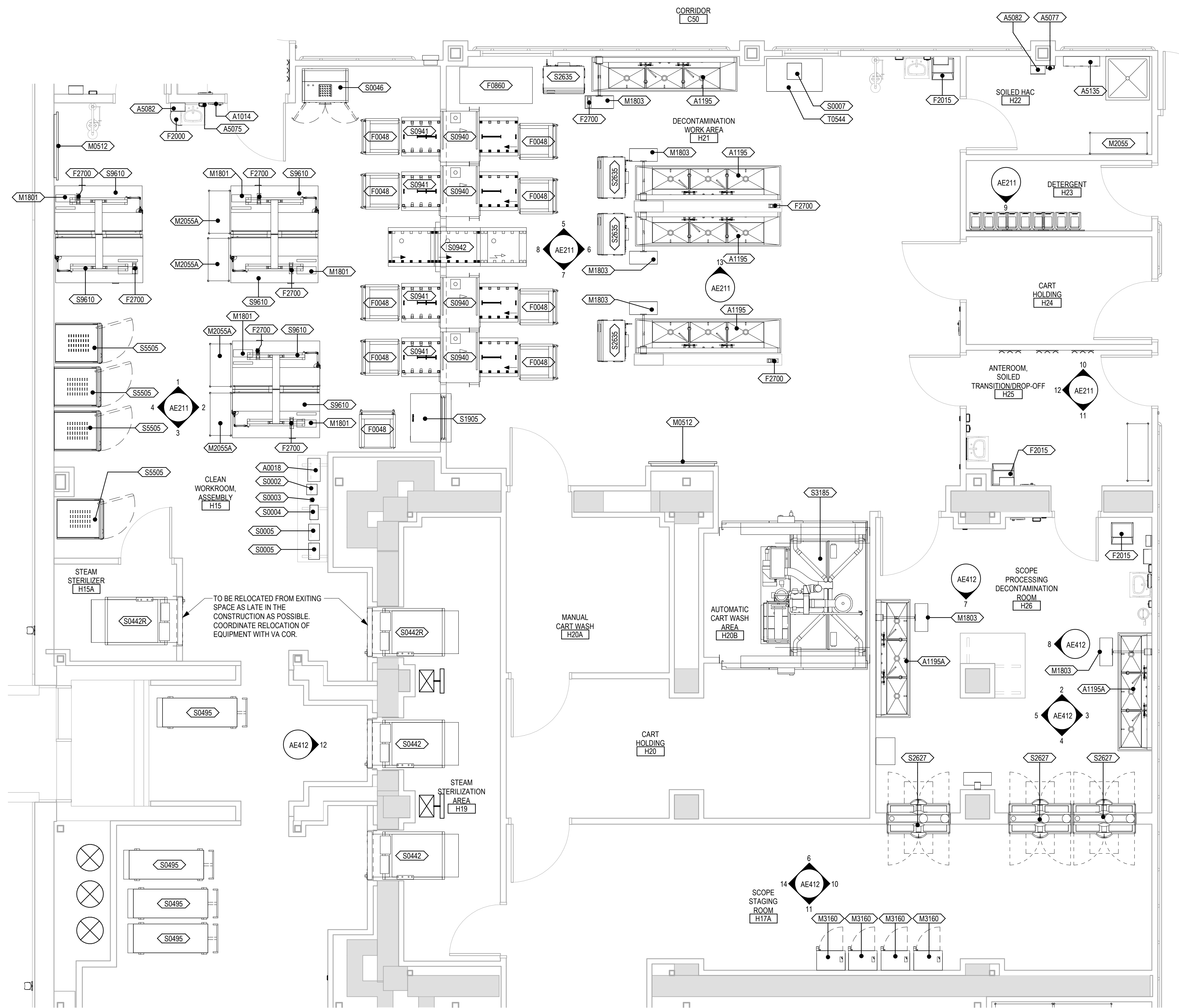


VA ACQUISITION CODE LEGEND	
CONTRACTOR FURNISHED AND INSTALLED	CC
VA FURNISHED - CONTRACTOR INSTALLED	VC
VA FURNISHED AND INSTALLED	VV
VA FURNISHED - CONTRACTOR INSTALLED WITH CONSTRUCTION FUNDS	VC(CF)
VA FURNISHED - VA INSTALLED WITH CONSTRUCTION FUNDS	V(CF)
RELOCATED	R

SEE DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL CONTRACTOR FURNISHED AND CONTRACTOR INSTALLED (CC) EQUIPMENT NOT INDICATED ON EQUIPMENT SCHEDULE.

EQUIPMENT #	EQUIPMENT NAME	MANUFACTURER	DESCRIPTION	ACQUISITION CODE	QTY	ROOM #	ROOM NAME
A0018	RENCO HEAT SEALER	RENCO	RENCO HEAT SEALER	VV	1	H15	CLEAN WORKROOM, ASSEMBLY
A1014	TELEPHONE, WALL MOUNTED			VV	7		
A1015	TELEPHONE DESK			VV	8		
A1195	AMSCO 50 STAINLESS STEEL 3 COMPARTMENT SINK 120"	STERIS Corporation	Amasco 50 Reprocessing Sink - 3 Bay/120" Long/Height Adjustable/Left to Right Work Flow (Delivery may be restricted by hallway width. STERIS installation and delivery teams to verify prior to shipping.)	VV	4	H21	DECONTAMINATION WORK AREA
A1196A	AMSCO 50 STAINLESS STEEL 3 COMPARTMENT REPROCESSING SINK 97.5"	STERIS Corporation	Amasco 50 Reprocessing Sink - 3 Bay/97.5" Long/Height Adjustable/Left to Right Work Flow	VV	2	H26	SCOPE PROCESSING DECONTAMINATION ROOM
A5020	BENCH, FLOOR MOUNTED	Scranton Products	Lockers as Specified in 10.51.00	VV	2		
A5075	SOAP DISPENSER			VV	11		
A5077	HAND SANITIZER DISPENSER			VV	8		
A5082	HANDS FREE PAPER TOWEL DISPENSER			VV	12		
A5090	SANITARY NAPKIN DISPOSAL			VV	3		
A5107	GLOVE DISPENSER (3 BOX)			VV	1	H26	SCOPE PROCESSING DECONTAMINATION ROOM
A5108	SHARPS		A container for collecting and transporting syringes and other sharps for decontamination and disposal. Available in 2 gallon and 8 gallon with locking rotor. Complies with OSHA regulations for handling sharps.	VV	1	H26	SCOPE PROCESSING DECONTAMINATION ROOM
A5135	MOP HOLDER WITH SHELF	Bradley Corporation	Utility Shelf w/2 Hooks 3 Holders & 1 Drying Rod - 30" W	VV	3		
A5145	HOOK, GARMENT, DOUBLE		A SURFACE MOUNTED, SATIN FINISH STAINLESS STEEL GARMENT HOOK, WITH A CONCEALED MOUNTING BRACKET THAT IS SECURED TO A CONCEALED WALL PLATE, FOR GENERAL PURPOSE	VV	12		
A5202	TOILET PAPER HOLDER 2 ROLL WITH SHELF			VV	5		
E2624	SCOPE BLOCK HOLDER			VV	1	H26	SCOPE PROCESSING DECONTAMINATION ROOM
F0048	TRANSFER CART	STERIS Corporation	Reliance Transfer Cart	VV	9		
F0880	STAINLESS STEEL TABLE			VV	7		
F2000	TRASH CAN 16" DIA		Wastepaper basket, fire resistant, approximately 40 quart capacity. This unit is used to collect and temporarily store small quantities of paper refuse in patient rooms, administrative areas and nursing stations. Size and shape varies depending on the app.	VV	6		
F2010	BASKET, WASTE PAPER, STEP-ON		STEP ON TRASH CAN	VV	1	H7	TOILET
F2015	TRASH CAN 18"x18"		METAL OR PLASTIC WASTEPAPER BASKET WITH SWING DOORS AND REMOVABLE LID, 18" X 18"	VV	7		
F2700	BAR CODE READER			VV	9		
F3200	CLOCK, BATTERY, 12IN DIA			VV	1	H8	STAFF LOUNGE
M0512	FLAT SCREEN MONITOR 60" WITH WALL BRACKET			VV	4		
M1801	COMPUTER WITH FLAT PANEL MONITOR			VV	14		
M1803	WALL MOUNTED COMPUTER WORKSTATION			VV	8		
M2055A	WIRE SHELVING 48"x18"		STORAGE RACK	VV	10		
M2055A	WIRE SHELVING 36"x18"		STORAGE RACK	VV	5		
M2056	HIGH DENSITY SHELVING SYSTEM		76" X 18" X 18" TOTAL	VV	2	H17	STERILE INSTRUMENT STORAGE
M3160	MEDVATOR ADVANTAGE PLUS AER SCOPE DRYING CABINET	CANTEL MEDICAL	ADVANTAGE PLUS AER - Single-side	VV	4	H17A	SCOPE STAGING ROOM
R7250	REFRIGERATOR		REFRIGERATOR	VV	1	H8	STAFF LOUNGE
S0002	3M ATTEST AUTO READER 390		3M ATTEST AUTO READER 390	VV	1	H15	CLEAN WORKROOM, ASSEMBLY
S0003	CENSATRAC SCANNER CHARGING STATION		CENSATRAC SCANNER CHARGING STATION	VV	1	H15	CLEAN WORKROOM, ASSEMBLY
S0004	INCUBATOR, BIOLOGICAL INDICATOR		INCUBATOR, BIOLOGICAL INDICATOR	VV	1	H15	CLEAN WORKROOM, ASSEMBLY
S0005	STRYKER BATTERY CHARGING STATION		STRYKER BATTERY CHARGING STATION	VV	2	H15	CLEAN WORKROOM, ASSEMBLY
S0006	TEE PROBE STORAGE CABINET		TEE PROBE STORAGE CABINET	VV	1	H17	STERILE INSTRUMENT STORAGE
S0007	COUNTERTOP ULTRASONIC CLEANER		COUNTERTOP ULTRASONIC CLEANER	VV	1	H21	DECONTAMINATION WORK AREA
S0046	STERIS AMSCO DRYING CABINET	STERIS Corporation	Amasco Drying Cabinet - 38" Single Door (110-120 Volt/20 Amp Dedicated Wall Plug)	VV	1	H15	CLEAN WORKROOM, ASSEMBLY
S0442	AMSCO 600 STEAM STERILIZER - 26.5x26.5x63"	STERIS Corporation	Amasco 600 Medium Steam Sterilizer - 26.5x26.5x63" (673x673x1600mm)/Single Sliding Door/Recessed Steam Heat	VV	2	H19	STEAM STERILIZATION AREA
S0442R	AMSCO 600 STEAM STERILIZER - 26.5x26.5x63"	STERIS Corporation	Amasco 600 Medium Steam Sterilizer - 26.5x26.5x63" (673x673x1600mm)/Single Sliding Door/Recessed Steam Heat	VV	2	VCR	
S0495	STERIS AMSCO 600 LOADING / TRANSFER CART	STERIS Corporation	Amasco 600 Loading Car and Transfer Carriage - 26.5x26.5x63" Fixed Height Sliding Door/Recessed Steam Heat	VV	4	H15	CLEAN WORKROOM, ASSEMBLY
S0940	STERIS AMSCO 7052HP WASHER / DISINFECTOR	STERIS CORPORATION	AMSCO 7052HP SINGLE-CHAMBER WASHER/DISINFECTOR - DOUBLE DOOR/STEAM HEAT/VENTED/FLUSH MOUNTED	VV	4	H21	DECONTAMINATION WORK AREA
S0940A	AMSCO AIR MANAGEMENT SYSTEM	STERIS CORPORATION		VV	2	H21	DECONTAMINATION WORK AREA
S0941	STERIS WASHER / DISINFECTOR CONVEYOR SYSTEM	STERIS Corporation	SCS Load/Unload Conveyor System - Single Load/Single Unload	VV	4	H21	DECONTAMINATION WORK AREA
S0942	STERIS MOTORIZED RETURN CONVEYOR SYSTEM WITH DOOR	STERIS Corporation	SCS-L Motorized Return Conveyor System - 3 Module/Return Door/Flush Mounted	VV	1	H21	DECONTAMINATION WORK AREA
S1905	STERIS AUTOMATED PASS THROUGH WINDOW 34"x45"	STERIS Corporation	STERIS Automated Pass-Through Window - Endoscopy Application (40x45" Window)	VV	1	H15	CLEAN WORKROOM, ASSEMBLY
S2627	ADVANTAGE PLUS PASS-THRU ENDOSCOPE REPROCESSOR	CANTEL MEDICAL	ADVANTAGE PLUS Pass-Thru Reprocessor, 230V (with air compressor)	VV	3	H26	SCOPE PROCESSING DECONTAMINATION ROOM
S2628	STERIS ACU-HOLD SYSTEM - WALL MOUNTED 3 CONTAINER	STERIS Corporation	Acu-Hold System - Wall Mounted 3 Container	VV	4	H23	DETERGENT
S2635	INNOVAVE ULTRASONIC IRRIGATOR & CLEANER	STERIS Corporation	InnoWave Unity Ultrasonic Irrigator - 15 Gallon	VV	4	H21	DECONTAMINATION WORK AREA
S3185	STERIS VISION 1327 CART AND UTENSIL WASHER	STERIS Corporation	Vision 1327 Cart and Utensil Washer/Disinfector - Standard Orientation/Double Door/PA Mounted	VV	1	H20B	AUTOMATIC CART WASH AREA
S5505	STERIS AMSCO V-PRO MAX LOW TEMP STERILIZER	STERIS Corporation	Amasco V-PRO Max Low Temperature Sterilization System - Single Door/Cabinet	VV	4	H15	CLEAN WORKROOM, ASSEMBLY
S9610	AMSCO PREP AND PACK WORK STATION 36" X 72" (ELECTRIC)	STERIS Corporation	Amasco Delux Prep and Pack Workstation - 36x72"/Electric	VV	6	H15	CLEAN WORKROOM, ASSEMBLY
T0544	MOBILE CART			VV	1	H21	DECONTAMINATION WORK AREA



1 ENLARGED EQUIPMENT PLAN
1/4" = 1'-0"

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Revisions:	Date:

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STAMP

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the laws of the State of Minnesota.

Name: *Tom Oleak*
Tom Oleak
Date: 02/14/2025
License Number: 18157

Office of Construction and Facilities Management

U.S. Department of Veterans Affairs

Drawing Title
ENLARGED EQUIPMENT PLAN & SCHEDULE

Approved:

Phase
BID DOCUMENTS

FULLY SPRINKLERED

Project Title
CONSTRUCT NEW SPS

Location
Sioux Falls, SD.

Issue Date
02/14/2025

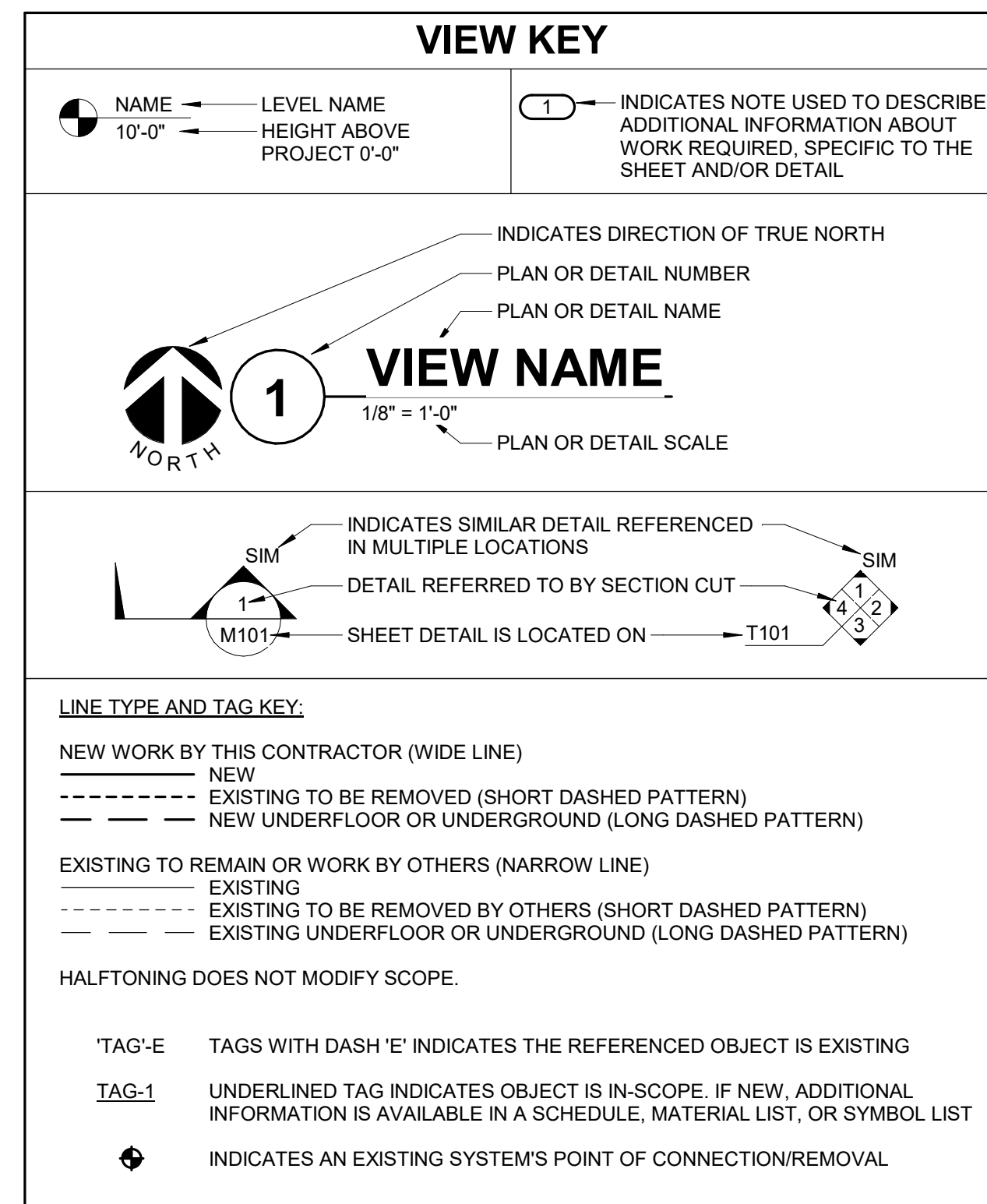
Checked
LA

Drawn
GJB

Project Number
438-460

Building Number
5

Drawing Number
QH411



CONTRACTOR ABBREVIATION KEY

ABBR:	DESCRIPTION:
A.C.	ASBESTOS ABATEMENT CONTRACTOR
C.C.	CIVIL CONTRACTOR
C.O.R.	CONTRACTING OFFICER'S REPRESENTATIVE
E.C.	ELECTRICAL CONTRACTOR
F.P.C.	FIRE PROTECTION CONTRACTOR
G.C.	GENERAL CONTRACTOR
M.C.	MECHANICAL CONTRACTOR
P.C.	PLUMBING CONTRACTOR
T.C.	TECHNOLOGY CONTRACTOR
T.C.C.	TEMPERATURE CONTROLS CONTRACTOR

APPLICABLE CODES

CONTRACTOR SHALL COMPLY WITH APPLICABLE CODES AND LOCAL AMENDMENTS.

BUILDING CODE:	IBC 2021 EDITION
FIRE CODE:	IFC 2021 EDITION
PLUMBING CODE:	IPC 2021 EDITION
MECHANICAL CODE:	IMC 2021 EDITION
ELECTRICAL CODE:	NFPA 70 (NEC) 2020 EDITION
LIFE SAFETY CODE:	NFPA 101 2021 EDITION
ENERGY CONSERVATION CODE:	IECC 2021
HEALTH DEPARTMENT CODE:	CURRENT EDITION
LOCAL BUILDING CODE:	CURRENT EDITION

CONTACT PERSONS:

DESCRIPTION:	PERSON:
PROJECT MANAGER	ERIC J. HENDERSON, PE
MECHANICAL	DELLAN J. LLEWELLYN, PE
ELECTRICAL	KRISTEN SPINA, PE
TECHNOLOGY	DAMON M. DEEN

FIRE PROTECTION SHEET INDEX

FP000	FIRE PROTECTION COVERSHEET
FPD101	GROUND LEVEL DEMOLITION PLAN - FIRE PROTECTION
FP101	GROUND LEVEL FLOOR PLAN - FIRE PROTECTION
FP111	INTERSTITIAL/FIRST LEVEL FLOOR PLAN - FIRE PROTECTION
FP400	FIRE PROTECTION DETAILS
GRAND TOTAL: 5	

FIRE PROTECTION SYMBOL LIST

NOT ALL SYMBOLS MAY APPLY.

SYMBOL:	DESCRIPTION:
—DPP—	DRAIN
—FP—	FIRE PROTECTION
—W—	SERVICE WATER - POTABLE
—W—	PIPE CAP
—D—	PIPE DOWN
—U—	PIPE UP OR UP/DOWN
—U—	UNION/FLANGE
—D—	DIRECTION OF FLOW IN PIPE
—D—	ROUTE TO DRAIN
—D—	SHUTOFF VALVE NORMALLY OPEN
—D—	AUTOMATIC DRAIN VALVE
—D—	AIR PRESSURE MAINTENANCE DEVICE
—D—	AIR SUPERVISORY SWITCH
—D—	ANGLE VALVE
—D—	BUTTERFLY VALVE WITH MONITOR SWITCH
—D—	CHECK VALVE
—D—	BACKFLOW PREVENTER
—D—	INSPECTOR TEST AND DRAIN VALVE
—D—	OS&Y GATE VALVE
—D—	OS&Y GATE VALVE WITH MONITOR SWITCH
—D—	FLOW SWITCH
—D—	PRESSURE SWITCH
—D—	PRESSURE GAUGE (FURNISHED WITH BALL VALVE)
—D—	MONITOR SWITCH
—D—	AREA BOUNDARY
—D—	LIGHT HAZARD
—D—	ORDINARY GROUP 1
—D—	ORDINARY GROUP 2
—D—	DEMOLITION
—D—	SPRINKLER - WALL MOUNTED
—D—	SPRINKLER

FIRE PROTECTION ABBREVIATION KEY

ABBR:	DESCRIPTION:
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
BFP	BACKFLOW PREVENTER
I.E.	INVERT ELEVATION
N.C.	NORMALLY CLOSED
NC	NOT IN CONTRACT
N.O.	NORMALLY OPEN
SCCR	SHORT CIRCUIT CURRENT RATING
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTES

FIRE FLOW TEST DATA

TEST DATE: SEPTEMBER 16, 2019

LOCATION: FIRE PUMP, FIRE PUMP ROOM, GROUND FLOOR, BUILDING 5

STATIC PRESSURE: 133 PSI

RESIDUAL PRESSURE: 82 PSI

TOTAL FLOW: 1,500 GPM

SIZE OF MAIN: 4" DIAMETER, ROUGHLY 320 FEET OF PIPE FROM FIRE PUMP TO WEST WING RISER


- ### MECHANICAL RENOVATION NOTES:
- THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, FIRE PROTECTION, PLUMBING, VENTILATION, PIPING AND TEMPERATURE CONTROL.
- EXISTING CONDITIONS ARE SHOWN BASED ON INFORMATION OBTAINED FROM FIELD SURVEYS, EXISTING BUILDING DOCUMENTS, AND STAFF. VERIFY EXISTING CONDITIONS AND REPORT ANY CONFLICTS BEFORE PROCEEDING.
 - NOT ALL EXISTING DUCTWORK AND PIPING IS SHOWN. VERIFY EXISTING CONDITIONS BEFORE STARTING WORK. NOTIFY ENGINEER OF ANY CONFLICTS WITH NEW WORK.
 - FIELD VERIFY THE AVAILABLE CLEARANCES FOR DUCTWORK AND PIPING BEFORE FABRICATION. RISERS AND DROPS MAY BE NECESSARY BECAUSE OF EXISTING FIELD CONDITIONS.
 - EACH CONTRACTOR SHALL FIELD VERIFY ACCESSIBILITY TO THE AREA OF THEIR WORK AND SHALL NOTIFY THE GENERAL CONTRACTOR PRIOR TO BIDDING IF OTHER UTILITIES ARE REQUIRED TO BE REMOVED OR RELOCATED TO ALLOW ACCESS TO THEIR AREA OF WORK.
 - THE GENERAL CONTRACTOR IS RESPONSIBLE FOR CUTTING, REMOVAL AND PATCHING OF ROOFS, WALLS, AND FLOORS ASSOCIATED WITH WORK BY ALL CONTRACTORS. CONTRACTORS SHALL NOTIFY THE GC OF AFFECTED AREAS PRIOR TO BIDDING.
 - THE GENERAL CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF CEILING, CEILING TILES, AND CEILING GRIDS ASSOCIATED WITH AREAS OF WORK BY ALL CONTRACTORS. NOTIFY THE GENERAL CONTRACTOR OF AFFECTED AREAS PRIOR TO BIDDING.
 - WHERE EXISTING MECHANICAL SYSTEMS ARE LOCATED IN AREAS THAT CONFLICT WITH NEW EQUIPMENT, PIPING, OR DUCTWORK TO BE INSTALLED, EACH CONTRACTOR SHALL EITHER ARRANGE NEW EQUIPMENT, PIPING, OR DUCTWORK IN SUCH A FASHION THAT IT DOES NOT CONFLICT WITH EXISTING SYSTEMS, OR REWORK EXISTING MECHANICAL SYSTEMS TO ALLOW FOR INSTALLATION OF NEW EQUIPMENT, PIPING, OR DUCTWORK.
 - PROVIDE TEMPORARY CONNECTIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING CONSTRUCTION. MAINTAIN ACCESS TO EXISTING MECHANICAL INSTALLATIONS THAT REMAIN ACTIVE.
 - OBTAIN PERMISSION FROM OWNER BEFORE SHUTTING DOWN ANY SYSTEM FOR ANY REASON. MAINTAIN SERVICE TO ALL COMPONENTS THAT ARE TO REMAIN UNTIL NEW SYSTEMS ARE INSTALLED.
 - MAINTAIN EXISTING SYSTEM IN SERVICE UNTIL NEW SYSTEM IS COMPLETE AND READY FOR TIE IN AND SWITCHOVER. DRAIN SYSTEM ONLY TO MAKE SWITCHOVERS AND CONNECTIONS. OBTAIN PERMISSION FROM OWNER BEFORE PARTIALLY OR COMPLETELY DRAINING SYSTEM. MAKE CHANGEOVER TO NEW SYSTEMS WITH MINIMUM OUTAGE.
 - DISCONNECT AND REMOVE MECHANICAL DEVICES AND EQUIPMENT SERVING EQUIPMENT THAT HAS BEEN REMOVED.

- ### MECHANICAL GENERAL NOTES:
- THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, FIRE PROTECTION, PLUMBING, VENTILATION, PIPING AND TEMPERATURE CONTROL.
- DRAWINGS SHOWING LOCATIONS OF EQUIPMENT, DUCTWORK, PIPING, ETC. ARE DIAGRAMMATIC AND MAY NOT ALWAYS REFLECT EXACT INSTALLATION CONDITIONS. DRAWINGS SHOW THE GENERAL ARRANGEMENT OF DUCTWORK, PIPING, EQUIPMENT, ETC., AND MAY NOT INCLUDE ALL OFFSETS AND FITTINGS REQUIRED FOR COMPLETE INSTALLATION. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND THE WORK OF OTHERS WILL PERMIT.
 - DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS AND CLEARANCES FROM ARCHITECTURAL, STRUCTURAL, SUBMITTALS, AND OTHER APPROPRIATE DRAWINGS OR PHYSICALLY AT SITE. REVIEW ALL DRAWINGS, INCLUDING THOSE OF OTHER TRADES.
 - COORDINATE ALL WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION TO PROVIDE CLEARANCES REQUIRED FOR OPERATION, MAINTENANCE, CODE COMPLIANCE, AND TO VERIFY NON-INTERFERENCE WITH OTHER WORK. DO NOT FABRICATE PRIOR TO VERIFICATION OF NECESSARY CLEARANCES FOR ALL TRADES. BRING ANY INTERFERENCES OR CONFLICTS TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH FABRICATION OR EQUIPMENT ORDERS.
 - REVIEW SPACE REQUIREMENTS OF EQUIPMENT SPECIFIED OR SUBSTITUTED AND MAKE REASONABLE ACCOMMODATIONS IN LAYOUT AND POSITIONING TO PROVIDE PROPER ACCESS.
 - ANY CHANGES REQUIRED TO ELIMINATE CONFLICTS OR THAT RESULT FROM A FAILURE TO COORDINATE SHALL BE MADE BY THE CONTRACTOR WITHOUT ADDITIONAL COST OR EXPENSE TO OTHERS.
 - EACH CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH ELECTRICAL CHANGES REQUIRED FOR EQUIPMENT PROPOSED THAT DIFFERS FROM THE BASIS OF DESIGN.
 - REFER TO ARCHITECTURAL REFLECTED CEILING PLAN, ELECTRICAL, TECHNOLOGY AUDIOVISUAL, AND OTHER MECHANICAL PLANS FOR EXACT LOCATIONS OF ALL CEILING MOUNTED DEVICES, OTHER THAN SPRINKLERS.
 - EACH CONTRACTOR IS RESPONSIBLE FOR DAMAGE CAUSED BY THEIR ACTIONS TO WALLS, FLOORS, CEILING, AND ROOFS. THE CONTRACTOR WHOSE WORK CAUSES DAMAGE IS RESPONSIBLE FOR PATCHING TO MATCH ORIGINAL CONSTRUCTION, FIRE RATING, AND FINISH.
 - IN AREAS WITH DRYWALL CEILING COORDINATE LOCATIONS OF ACCESS PANELS WITH THE GC FOR ACCESS TO VALVES, DUCTWORK ACCESSORIES, DAMPERS, ETC. COORDINATE PANEL TYPE AND COLOR WITH ARCHITECT. NOTIFY THE GC OF THE REQUIRED ACCESS PANELS PRIOR TO BIDDING.
 - SEAL ALL FLOOR, WALL, AND ROOF PENETRATIONS AIRTIGHT WHERE CONDUITS, PIPING, AND DUCTS PENETRATE. PENETRATIONS THROUGH EXTERIOR WALLS AND ROOF SHALL BE SEALED AIRTIGHT WITH WATERPROOFING MATERIALS RECOMMENDED BY MANUFACTURER FOR OUTDOOR USE.
 - CALL OUT PIPE AND DUCT PENETRATIONS OF FULL HEIGHT NON-FIRE RATED WALL, PARTITION, FLOOR, AND ROOF ASSEMBLIES. THIS IS ESSENTIAL TO PREVENT NOISE TRANSMISSION FROM ONE ROOM TO ANOTHER AND TO PROVIDE THE DESIRED NC LEVELS WITHIN ROOMS.
 - WHERE PIPES AND DUCTS ARE SHOWN TO PENETRATE FLOORS, PROVIDE SLEEVED OPENINGS WITH THE TOP EDGE RAISED ABOVE FLOOR SURFACE IN ACCORDANCE WITH ALL RELEVANT SPEC SECTIONS. SEAL SLEEVE PERIMETER TO BE WATER TIGHT.
 - EQUIPMENT SIZES AND SERVICE CLEARANCE REQUIREMENTS VARY AMONG DIFFERENT MANUFACTURERS. CONSULT APPROVED SHOP DRAWINGS FOR EQUIPMENT SIZES AND REQUIRED SERVICE CLEARANCES. COORDINATE WITH LAYOUT OF EQUIPMENT PADS, PIPING, DUCTWORK, ETC.
 - DO NOT BLOCK TUBE PULL OR EQUIPMENT SERVICE CLEARANCES.
 - MAINTAIN A MINIMUM WORKING CLEARANCE OF 3'-6" IN FRONT OF ALL ELECTRICAL EQUIPMENT REQUIRING MAINTENANCE, INSPECTION, AND TESTING INCLUDING BUT NOT LIMITED TO PANELS, DISTRIBUTION PANELS, SWITCHBOARDS, MOTOR CONTROL CENTERS, TRANSFORMERS, EQUIPMENT DISCONNECTS AND STARTERS.
 - MAINTAIN THE DEDICATED ELECTRICAL EQUIPMENT SPACE DEFINED BY THE WIDTH / DEPTH OF ELECTRICAL EQUIPMENT MEASURED FROM THE FLOOR TO A HEIGHT 6'-0" ABOVE THE EQUIPMENT OR THE STRUCTURAL CEILING, WHICHEVER IS LOWER. SYSTEMS FOREIGN TO THE ELECTRICAL DISTRIBUTION SYSTEM ARE NOT ALLOWED IN THE DEDICATED ELECTRICAL SPACE INCLUDING DUCTWORK, PIPING, ETC.
 - PROVIDE CONCRETE EQUIPMENT PAD FOR ALL FLOOR MOUNTED EQUIPMENT. PAD SHALL EXTEND MINIMUM 6" BEYOND ALL SIDES OF EQUIPMENT.
 - DO NOT SUPPORT EQUIPMENT, PIPING, OR DUCTWORK FROM METAL DECKING OR OTHER NON-STRUCTURAL BUILDING ELEMENTS. ANCHORS EMBEDDED IN CONCRETE SHALL BE CRACKED CONCRETE APPROVED IN ACCORDANCE WITH SPECIFICATIONS.

- ### FIRE PROTECTION GENERAL NOTES:
- THE SYMBOLS AND THE MATERIAL LIST ARE FOR THE CONVENIENCE OF THE CONTRACTOR. CONTRACTOR SHALL VERIFY QUANTITIES AND FURNISH ALL MATERIALS REQUIRED FOR FULLY OPERATIONAL SYSTEMS, WHETHER SPECIFIED OR NOT.
 - CATALOG NUMBERS SHALL NOT BE CONSIDERED COMPLETE, BUT ARE GIVEN AS AN AID TO THE CONTRACTOR AND TO INDICATE THE QUALITY REQUIRED. CONTRACTOR IS RESPONSIBLE FOR COMPLETE DESCRIPTION OF MATERIAL ON THESE DRAWINGS AND IN THE SPECIFICATIONS BEFORE ORDERING. THE DESCRIPTION OF THE MATERIAL TAKES PRECEDENCE OVER THE CATALOG NUMBER. THE FIRST MANUFACTURER IS THE BASIS OF DESIGN.
 - CENTER SPRINKLERS IN CEILING TILES IN BOTH DIRECTIONS IN ALL AREAS. IN AREAS WITH 2'x4' CEILING TILES CENTERING USING A 2'x2' CEILING PATTERN IS ACCEPTABLE. SPRINKLER HEADS SHALL BE ALIGNED WITH OTHER SPRINKLER HEADS, LIGHTING, DIFFUSERS, AND ANY OTHER FEATURES IN THE CEILING.
 - NEW SPRINKLERS SHALL BE QUICK RESPONSE TYPE UNLESS OTHERWISE NOTED. CONTRACTOR SHALL NOT MIX STANDARD RESPONSE SPRINKLERS WITH QUICK RESPONSE SPRINKLERS IN UNPARTITIONED SPACES.
 - PROVIDE COVERAGE ABOVE AND BELOW ALL DUCTWORK GREATER THAN 48" WIDE.
 - PROVIDE COVERAGE ABOVE (IF APPLICABLE) AND BELOW FLOATING CEILING, REFER TO ARCHITECTURAL PLANS.
 - FIRE PROTECTION PIPE ROUTING IS SHOWN FOR GENERAL LAYOUT. DETERMINE EXACT NUMBER OF SPRINKLERS, PIPE SIZING, AND PIPE ROUTING.
 - ALL BUILDING AREA SHALL BE FULLY SPRINKLERED INCLUDING CANOPIES, WALKWAYS, OVERHANGS, SOFFITS, AND BUILDING PROJECTIONS. ALL ACCESSIBLE COMBUSTIBLE CONCEALED SPACES SHALL BE FULLY PROTECTED BY THE SPRINKLER SYSTEM.
 - EACH RISER ASSEMBLY SHALL INCLUDE CHECK VALVE BUTTERFLY CONTROL VALVE INDICATING "OPEN" OR "CLOSED" POSITION, TEST INSPECTION VALVE, FLOW SWITCH AND PRESSURE GAUGES.
 - WHERE FEASIBLE INSTALL PIPES HIGH AS POSSIBLE TO AVOID CONFLICT WITH OTHER DISCIPLINES.
 - INSTALL SYSTEM DRAINS AT LOW POCKET AREAS CONTAINING FIVE GALLONS OF WATER OR MORE. PROVIDE WITH ISOLATION VALVE AND THREADED HOSE CONNECTION.
 - MAIN PIPING PASSING BELOW SKYLIGHTS OR CLERESTORIES ARE NOT PERMITTED.
 - FOLLOW STRUCTURAL DETAILS WHEN PENETRATING OR PASSING THROUGH STRUCTURAL ELEMENTS. ALTERNATE DESIGNS WILL NEED TO BE APPROVED THROUGH THE STRUCTURAL ENGINEER.
 - PROVIDE INTERMEDIATE TEMPERATURE SPRINKLER HEADS WHERE REQUIRED BY NFPA 13 UNLESS OTHERWISE NOTED.
 - FINAL HEAD LOCATION, TYPE AND FINISH SHALL BE REVIEWED AND APPROVED BY THE ARCHITECT.
 - A GRAPHIC ANNUNCIATOR PANEL SHALL BE PROVIDED TO INCLUDE AREAS BEING PROVIDED WITH A PRE-ACTION OR CLEAN AGENT SYSTEM WHICH HAVE CONCEALED AREAS.
 - EXACT LOCATION OF THE ALL PANELS SHALL BE VERIFIED ON SITE AND COORDINATED WITH THE ELECTRICAL CONTRACTOR.
 - PAINT ALL EXPOSED PIPING TO MATCH BACKGROUND OR AS DIRECTED BY THE ARCHITECT.
 - THE OWNER MUST BE NOTIFIED PRIOR TO EACH AND EVERY DRAINING OR RECHARGING OF THE SPRINKLER SYSTEM.
 - THE CONTRACTOR SHALL PREPARE A COORDINATED SET OF SHOP DRAWINGS AND SHALL OBTAIN APPROVAL FROM THE AUTHORITIES HAVING JURISDICTION AND THE LOCAL FIRE DEPARTMENT PRIOR TO ANY INSTALLATION.
 - DRAWINGS SHOW LOCATIONS OF EQUIPMENT, DUCTWORK, PIPING, ETC. ARE DIAGRAMMATIC AND MAY NOT ALWAYS REFLECT EXACT INSTALLATION CONDITIONS. DRAWINGS SHOW THE GENERAL ARRANGEMENT OF DUCTWORK, PIPING, EQUIPMENT, ETC. AND MAY NOT INCLUDE ALL OFFSETS AND FITTINGS REQUIRED FOR COMPLETE INSTALLATION. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND THE WORK OF OTHERS WILL PERMIT.
 - VERIFY ALL DIMENSIONS AND CLEARANCES FROM ARCHITECTURAL, STRUCTURAL SUBMITTALS, AND OTHER APPROPRIATE DRAWINGS OR PHYSICALLY AT SITE. REVIEW ALL DRAWINGS, INCLUDING THOSE OF OTHER TRADES.

Revisions:	Date:

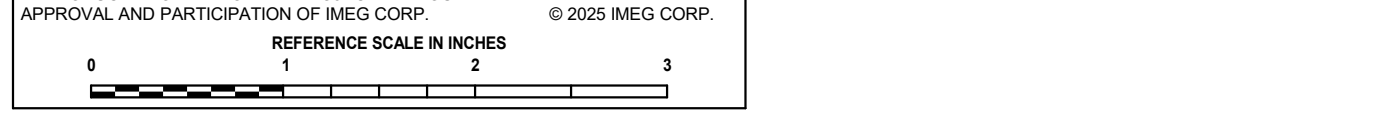
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 www.imegcorp.com
 PROJECT # 19004249.04

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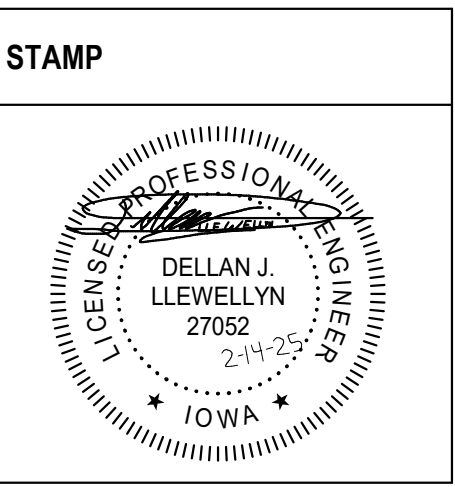
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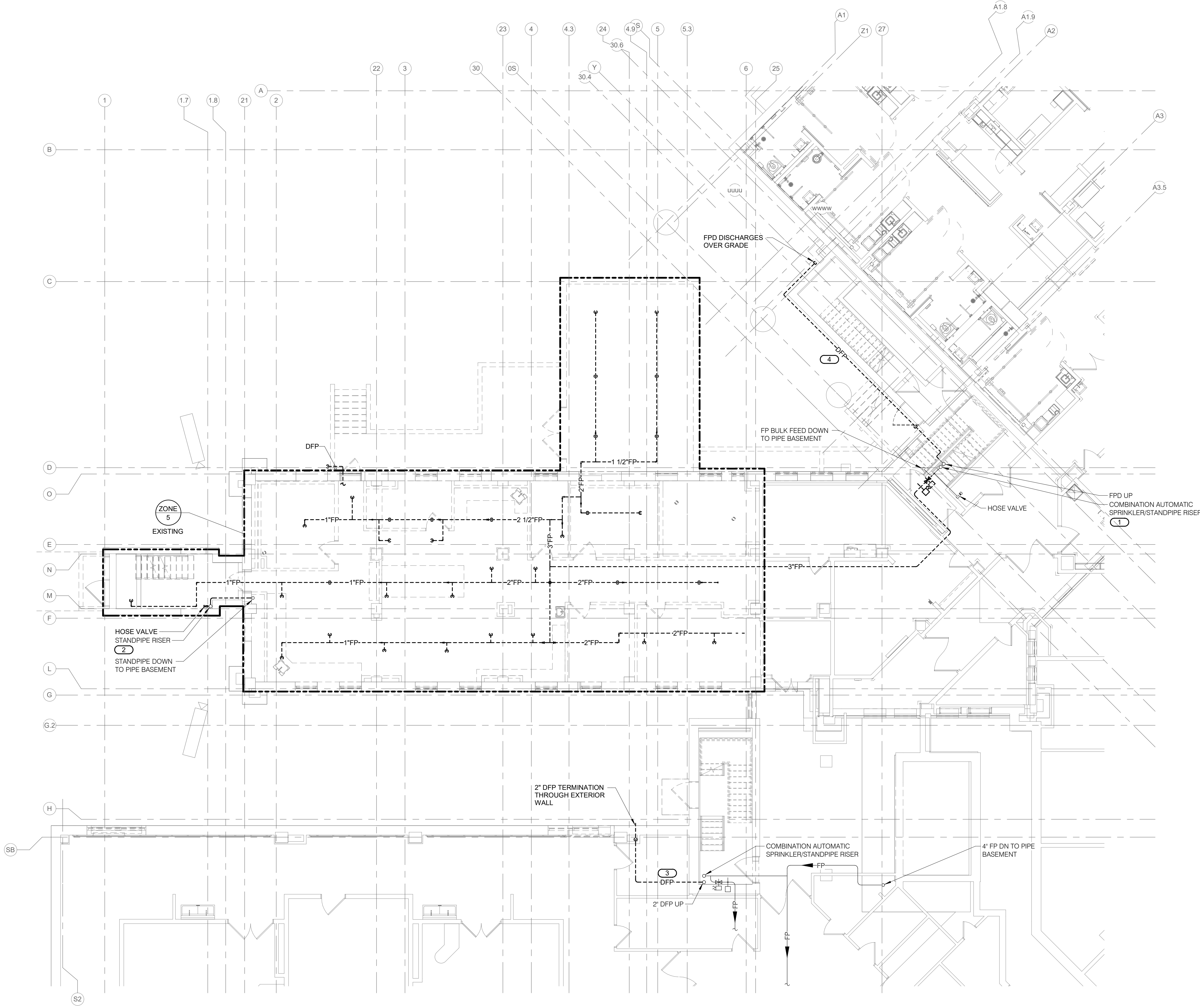
U.S. Department
 of Veterans
 Affairs

Drawing Title	Phase
FIRE PROTECTION COVERSHEET	BID DOCUMENTS
Approved:	FULLY SPRINKLERED

Project Title	Project Number
CONSTRUCT NEW SPS	438-460
Location	Building Number
Sioux Falls, SD.	5
Issue Date	Checked
02/14/2025	BLOABR
Drawn	DELLE
Drawing Number	FP000

Issue Date	Checked	Drawn	Drawing Number
02/14/2025	BLOABR	DELLE	FP000

- GENERAL FIRE PROTECTION NOTES:**
1. REFERENCE F000 - FIRE PROTECTION COVERSHEET FOR FIRE PROTECTION SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES.
 2. REMOVE MAIN SPRINKLER PIPE, BRANCHES AND SPRINKLERS THROUGHOUT THE PROJECT AREA BACK TO RISER LOCATED IN STAIR #4.
- KEYNOTES: #**
1. EXISTING PRESSURE GAUGE INSTALLED IN STAIR #4 READS 145 PSI AT THIS LEVEL.
 2. EXISTING STANDPIPE DOWN TO PIPE BASEMENT. HORIZONTAL PIPING SHOWN ROUTES ALONG FLOOR TO STANDPIPE RISER IN STAIR TOWER. REMOVE PIPING ON FLOOR AND PREPARE TO EXTEND PIPING FROM PIPE BASEMENT VERTICALLY TO ABOVE GROUND FLOOR CEILING BEFORE OFFSETTING HORIZONTALLY TO CONNECT TO STANDPIPE RISING UP THROUGH REMAINDER OF STAIR TOWER.
 3. REMOVE EXISTING STANDPIPE DRAIN PIPE FROM EXTERIOR WALL PENETRATION TO STAIRWELL. DRAIN WILL BE REROUTED TO MOP BASIN IN HAC G745.
 4. REMOVE 2" STANDPIPE DRAIN ROUTED ON EXTERIOR WALL. DRAIN SHALL BE REROUTED THROUGH NEW INTERSTITIAL LEVEL MECHANICAL ROOM AS SHOWN ON FP111.



1 GROUND LEVEL DEMOLITION PLAN - FIRE PROTECTION
 1/8" = 1'-0"
 NORTH

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Revisions:	Date:

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DELLAN J. LLEWELLYN
 27052
 2/14/2025
 IOWA

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
 GROUND LEVEL DEMOLITION PLAN - FIRE PROTECTION

Approved:

Phase
 BID DOCUMENTS

FULLY SPRINKLERED

Project Title
 CONSTRUCT NEW SPS

Location
 Sioux Falls, SD.

Issue Date
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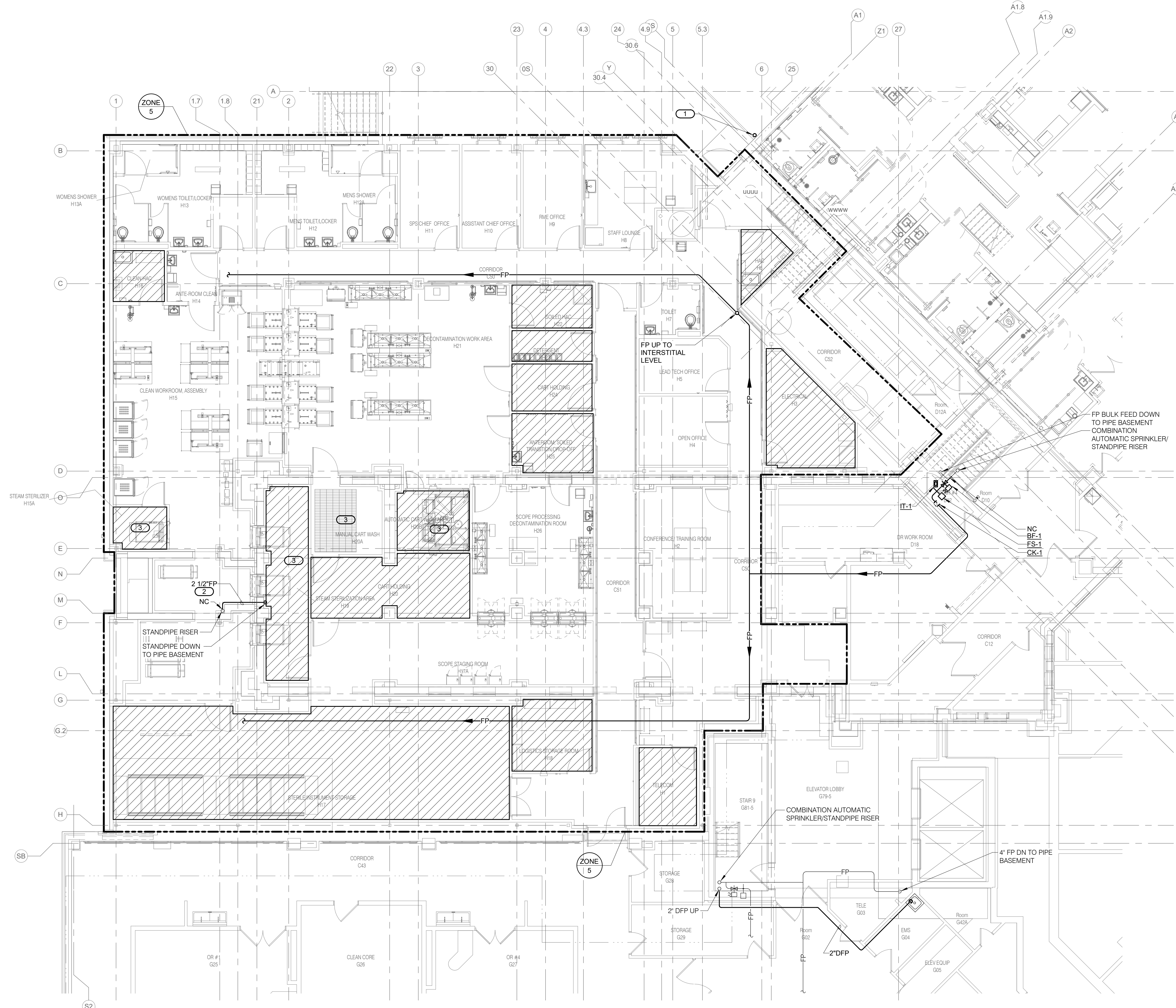
Drawing Number
 FPD101

GENERAL FIRE PROTECTION NOTES:

- REFERENCE F000 - FIRE PROTECTION COVERSHEET FOR FIRE PROTECTION SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES.
- REFERENCE FP000 FOR FIRE SPRINKLER USAGE SCHEDULE AND FIRE PROTECTION MATERIAL LIST.
- REFERENCE 1/FP400 FOR RATED FIRE BARRIER PENETRATIONS. REFER TO ARCHITECTURAL PLANS FOR FIRE BARRIER LOCATIONS.
- REFERENCE 2/FP400 FOR PIPE THROUGH NON-RATED WALL DETAIL.
- REFERENCE 3/FP400 FOR SPRINKLER PIPE HANGER DETAIL.
- REFERENCE 4/FP400 FOR SPRINKLER HEAD MOUNTING DETAIL.
- THE SYMBOLS AND THE MATERIAL LIST ARE FOR THE CONVENIENCE OF THE CONTRACTOR. CONTRACTOR SHALL VERIFY QUANTITIES AND FURNISH ALL MATERIALS REQUIRED FOR FULLY OPERATIONAL SYSTEMS, WHETHER SPECIFIED OR NOT. CATALOG NUMBERS SHALL NOT BE CONSIDERED COMPLETE BUT ARE GIVEN AS AN AID TO THE CONTRACTOR AND TO INDICATE THE QUALITY REQUIRED. CONTRACTOR IS RESPONSIBLE FOR A COMPLETE DESCRIPTION OF MATERIAL ON THESE DRAWINGS AND IN THE SPECIFICATIONS BEFORE ORDERING. THE DESCRIPTION OF THE MATERIAL TAKES PRECEDENCE OVER THE CATALOG NUMBER. THE FIRST MANUFACTURER IS THE BASIS OF DESIGN.
- FIRE PROTECTION PIPE ROUTING IS SHOWN TO INDICATE DESIGN INTENT. FIRE PROTECTION CONTRACTOR SHALL DETERMINE EXACT NUMBER OF SPRINKLERS, PIPE SIZING, AND PIPE ROUTING BASED ON HYDRAULIC CALCULATIONS AND DETAILED WORKING DRAWINGS REQUIRED IN NFPA 13.
- DRAWINGS SHOWING LOCATIONS OF EQUIPMENT AND PIPING, ETC. ARE DIAGNOSTIC AND MAY NOT ALWAYS REFLECT EXACT INSTALLATION CONDITIONS. DRAWINGS SHOW THE GENERAL ARRANGEMENT OF PIPING, EQUIPMENT, ETC., AND MAY NOT INCLUDE ALL OFFSETS AND FITTINGS REQUIRED FOR COMPLETE INSTALLATION. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND THE WORK OF OTHERS WILL PERMIT.
- DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS AND CLEARANCES FROM ARCHITECTURAL, STRUCTURAL, SUBMITTALS, AND OTHER APPROPRIATE DRAWINGS OR PHYSICALLY AT SITE. REVIEW ALL DRAWINGS, INCLUDING THOSE OF OTHER TRADES.
- COORDINATE ALL WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION TO PROVIDE CLEARANCES REQUIRED FOR OPERATION, MAINTENANCE, CODE COMPLIANCE AND TO VERIFY NON-INTERFERENCE WITH OTHER WORK. DO NOT FABRICATE PRIOR TO VERIFICATION OF NECESSARY CLEARANCES FOR ALL TRADES. BRING ANY INTERFERENCES OR CONFLICTS TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH FABRICATION OR EQUIPMENT ORDERS.
- REVIEW SPACE REQUIREMENTS OF EQUIPMENT SPECIFIED OR SUBSTITUTED AND MAKE REASONABLE ACCOMMODATIONS IN LAYOUT AND POSITIONING TO PROVIDE PROPER ACCESS.
- CENTER SPRINKLERS IN CEILING TILES IN BOTH DIRECTIONS IN ALL AREAS. IN AREAS WITH 2'x4' CEILING TILES, CENTERING USING A 2'x2' CEILING PATTERN IS ACCEPTABLE.
- PROVIDE SPRINKLER COVERAGE ABOVE AND BELOW ALL DUCTWORK GREATER THAN 48" WIDE.
- PROVIDE SPRINKLER COVERAGE ABOVE AND BELOW ALL CLOUD CEILINGS. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR LOCATIONS.

KEYNOTES: (#)

- 2" FPD UP, TERMINATE FPD THROUGH 45° ELBOW OVER SPLASH BLOCK ON GRADE.
- EXTEND STANDPIPE FEED RISER UP FROM EXISTING GROUND LEVEL, SLAB PENETRATION TO ABOVE GROUND LEVEL CEILING BEFORE RECONNECTING TO EXISTING STANDPIPE IN STAIRWELL. EXISTING STAIR TOWER NO LONGER HAS ACCESS TO THIS LEVEL OF THE FACILITY UNDER NEW WORK.
- PROVIDE INTERMEDIATE TEMPERATURE SPRINKLERS ADJACENT TO STEAM UTILIZING EQUIPMENT AND WHERE STEAM SPILLOUT MAY OCCUR.



1 GROUND LEVEL FLOOR PLAN - FIRE PROTECTION
 1/8" = 1'-0"
 NORTH

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Professional Engineer
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Office of Construction and Facilities Management
 VA U.S. Department of Veterans Affairs

Drawing Title
GROUND LEVEL FLOOR PLAN - FIRE PROTECTION

Approved:

Phase
BID DOCUMENTS

FULLY SPRINKLERED

Project Title
CONSTRUCT NEW SPS

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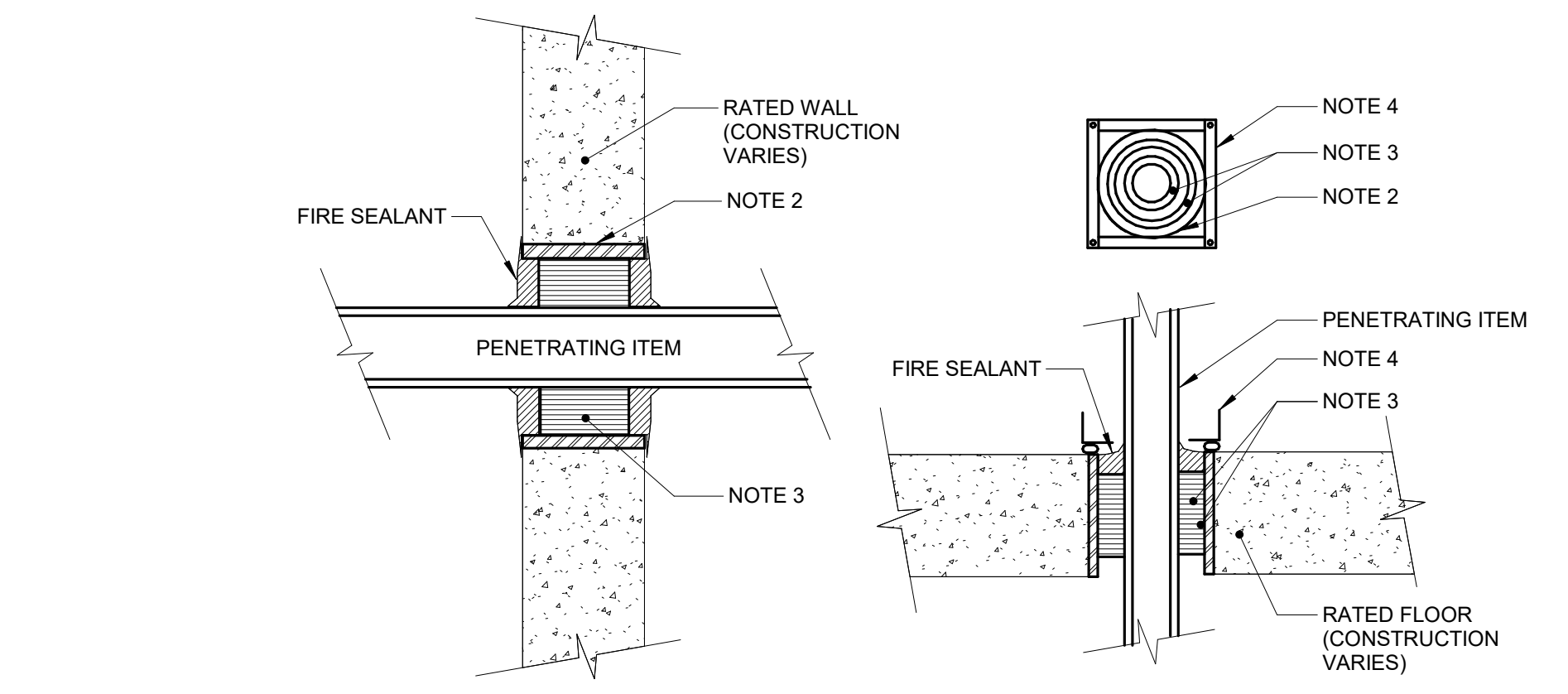
FIRE SPRINKLER USAGE SCHEDULE

NOTES:
 1. SEE FLOOR PLANS FOR ZONING REQUIREMENTS.
 2. SPRINKLER SHALL HAVE COLOR CODED BULB THERMAL ELEMENT.
 3. ALL SPRINKLERS SHALL BE UL LISTED.
 4. CONTRACTOR TO VERIFY SPRINKLER REQUIREMENTS BASED ON ACTUAL INSTALLATION, USAGE, ARCHITECTURAL CEILING PLAN AND NFPA 13 REQUIREMENTS.
 5. TAG NAME IS PRIMARILY FOR IDENTIFYING SPRINKLERS IN SUBMITTALS; IT MAY OR MAY NOT BE FOUND ELSEWHERE ON THE DRAWINGS. CONTRACTOR TO SUBMIT ALL SPRINKLER TYPES TO BE USED.
 6. AREAS ARE GENERAL IN NATURE. CONTRACTOR TO MATCH UNSCHEDULED AREAS TO SIMILAR SPACES.
 7. SPRINKLERS SHALL HAVE A 3mm QUICK RESPONSE BULB.
 8. SPRINKLERS SPECIFIED WITHIN FIRE SPRINKLER USAGE SCHEDULE ARE STANDARD COVERAGE TYPE. EXTENDED COVERAGE SPRINKLERS ARE PERMITTED PROVIDED SPRINKLERS MEET THE REQUIREMENTS OF UL AND FM.
 9. PROVIDE STANDARD RESPONSE SPRINKLER WITH FUSIBLE LINK AND MECHANICAL CAGE IN ELECTRICAL AND IT ROOMS.

AREA TYPE (NOTE 1 & 6)	AREA HAZARD	SPRINKLER				TEMPERATURE RATING	MANUFACTURER & MODEL	NOTES
		TAG NAME (NOTE 4 & 5)	SPRINKLER TYPE	RESPONSE CATEGORY	FINISH			
AREAS WITH CEILINGS OPEN TO STRUCTURE	SEE PLANS	SPR-1	UPRIGHT	QUICK	ROUGH BRASS	PER NFPA	VIKING, RELIABLE, TYCO, VICTAULIC	NOTES 2, 3, 7, & 8
AREAS WITH SUSPENDED CEILINGS	SEE PLANS	SPR-2	RECESSED PENDENT	QUICK	CHROME PLATED	PER NFPA	VIKING, RELIABLE, TYCO, VICTAULIC	NOTES 2, 3, 7, & 8
ELECTRICAL AND IT ROOMS	SEE PLANS	SPR-3	UPRIGHT	STANDARD	CHROME PLATED	PER NFPA	VIKING, RELIABLE, TYCO, VICTAULIC	NOTES 2, 8, & 9

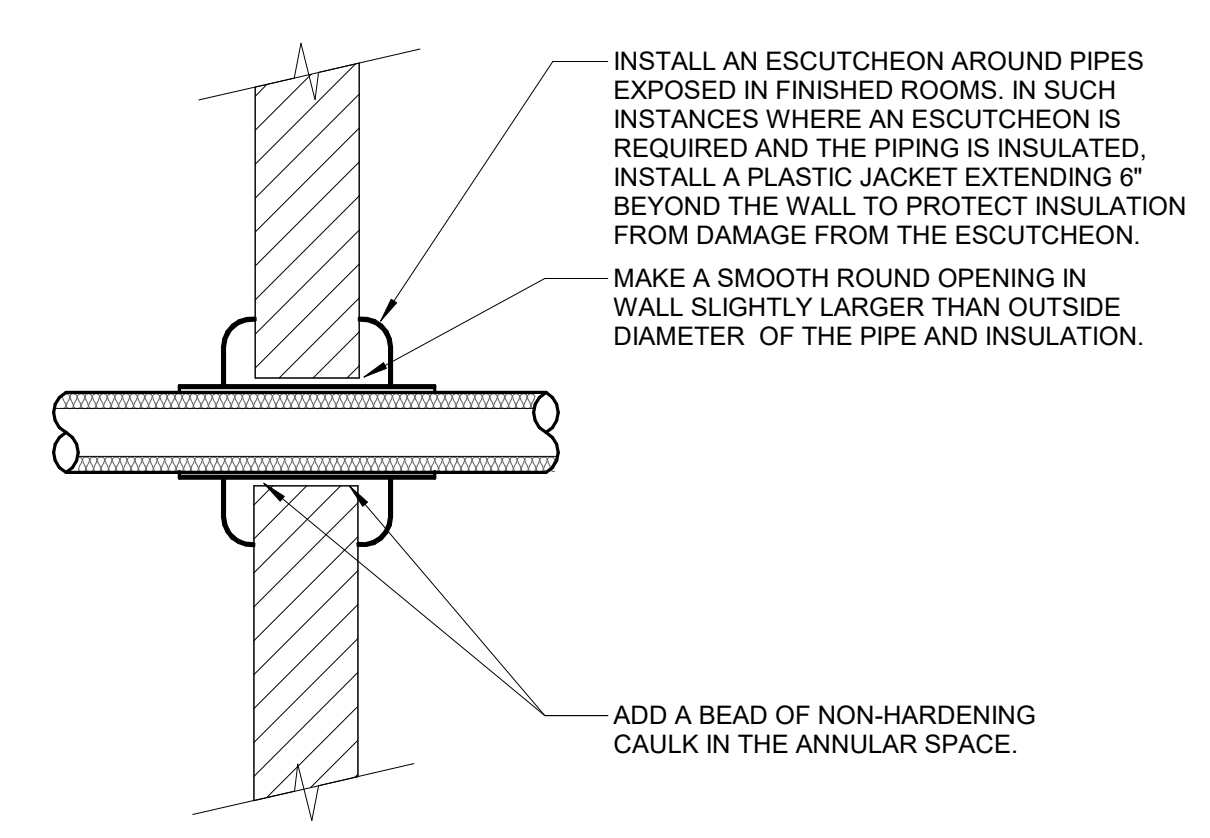
FIRE PROTECTION MATERIAL LIST

TAG NAME	DESCRIPTION	MANUFACTURER AND MODEL
BF-1	INDICATING BUTTERFLY VALVE, NORMALLY OPEN, 175 PSI WWP, GROOVED TYPE DUCTILE IRON BODY WITH PROTECTIVE COATING, ELECTROLESS NICKEL OR EPDM COATED DUCTILE IRON DISC, STAINLESS STEEL STEM AND SCREWS, CAST OR DUCTILE IRON HANDWHEEL, EPDM SEAT, INDICATOR FLAG, FACTORY MOUNTED INTEGRAL MONITOR SWITCHES, UL/FM.	NIBCO GD-4765-8N, VICTAULIC SERIES 705, TYCO BFV-300, KENNEDY G300, GLOBE GLR300G, REL-BFG-300
CK-1	SWING CHECK VALVE, 300 PSI WWP, GROOVED/FLANGED TYPE, DUCTILE IRON BODY, STAINLESS STEEL HINGE ASSOCIATED WITH RUBBER FACED CLAPPER, BRASS SEAT RING, ACCESS COVER, 1/2" OR 3/4" TAPPED BOSSES, VALVE LISTED FOR HORIZONTAL OR VERTICAL INSTALLATION, UL/FM.	VIKING G-1, TYCO CV-1F
FS-1	FLOW SWITCH - VANE TYPE, 450 PSI, FLOW SENSITIVITY OF 4-10 GPM, TWO SINGLE POLE DOUBLE THROW SWITCHES, PNEUMATIC RETARD ADJUSTABLE FROM 0-90 SECONDS WITH AUTOMATIC RESET, NEMA 4 INDOOR/OUTDOOR RATED METAL HOUSING, UL/FM.	POTTER VSR, SYSTEM SENSOR WFD
IT-1	COMBINATION INSPECTOR'S TEST AND DRAIN VALVE, 300 PSI, INTEGRAL SIGHT GLASS, BALL VALVE PLATE INDICATING OFF-TEST-DRAIN POSITIONS, FURNISHED WITH TEST ORIFICE GIVING FLOW EQUIVALENT TO ONE SPRINKLER OF A TYPE HAVING THE SMALLEST ORIFICE INSTALLED ON THE SYSTEM, PRESSURE RELIEF VALVE, UL/FM.	AGF M1011A, RELIABLE MODEL TD, VICTAULIC TESTMASTER, GLOBE LTD W/ MODEL ARV PRV



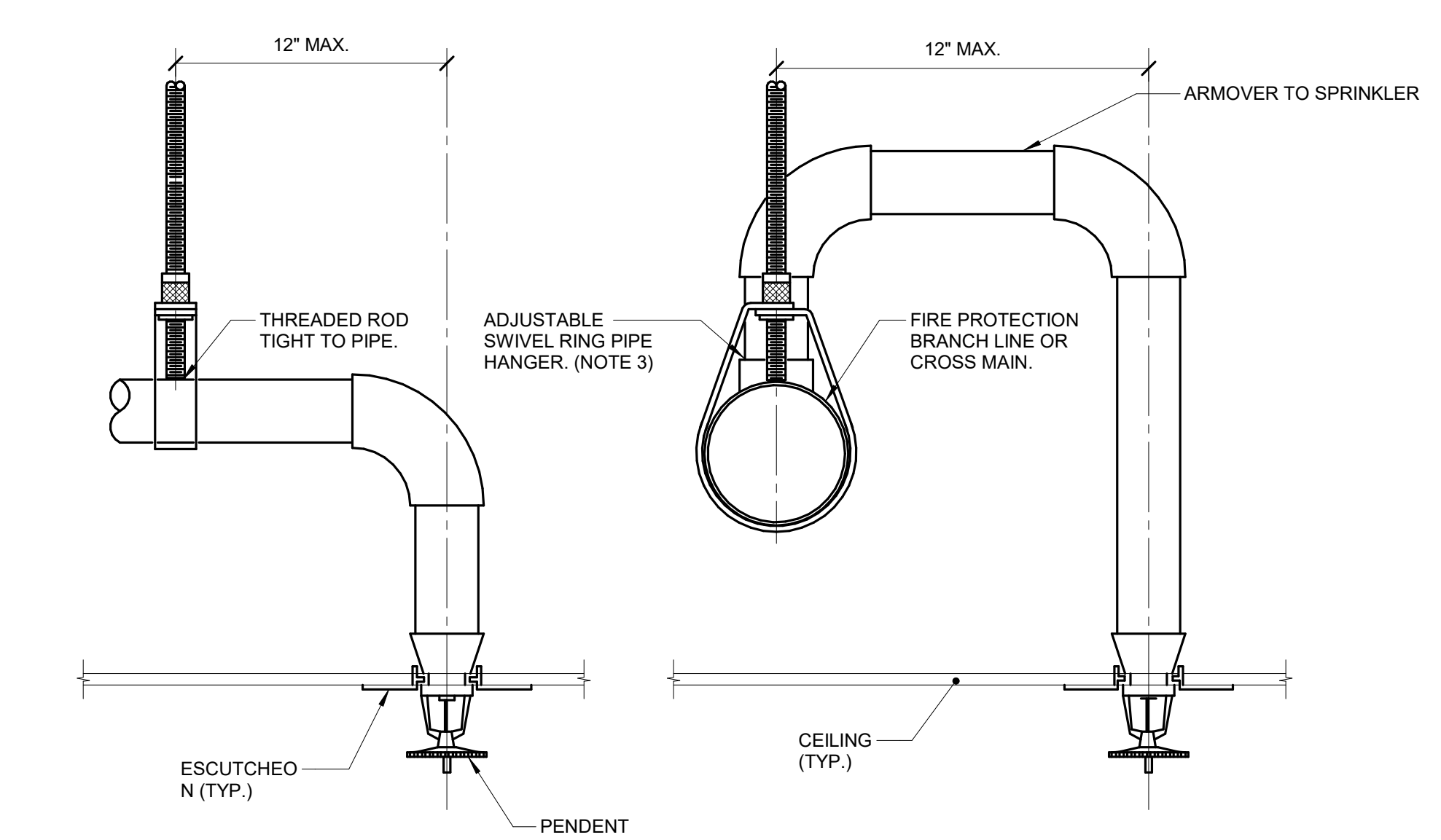
1 FLOOR/WALL PENETRATION - RATED FIRE BARRIER

NO SCALE NOTES:
 1. THIS GENERAL DETAIL APPLIES TO ALL ITEMS PENETRATING FIRE RATED WALLS OR FLOORS. THE INTENT IS TO MAINTAIN THE FIRE RATING AND TO ALLOW LONGITUDINAL MOVEMENT. REFER TO SPECIFICATION SECTION 21 05 03 FOR SELECTION OF THROUGH PENETRATION FIRE STOPPING.
 2. SCHEDULE 5 PIPE SLEEVE EMBEDDED IN WALL OR FLOOR, OR SMOOTH CORE DRILL, EACH CONTRACTOR FURNISHES SLEEVE TO G.C., COORDINATES SLEEVE LOCATIONS AND DEBURS SLEEVE. G.C. BUILDS SLEEVE INTO WALL OR FLOOR ALLOWING NO GAP AROUND SLEEVE. IF SLEEVE IS NOT PROVIDED WHEN WALL OR FLOOR IS BUILT, CONTRACTOR SHALL INSTALL SLEEVE. SLEEVE SIZE SHALL ALLOW ANNUAL SPACE REQUIRED BY THE SELECTED FIRE STOP SYSTEM.
 3. INSTALL BACKING MATERIAL SUCH AS MINERAL WOOL SAFING, AS REQUIRED FOR FIRE STOP SYSTEM. INSTALL IN ACCORDANCE WITH FIRE STOP SYSTEM APPLICATION LISTING. SECURE TO WALL OR FLOOR TO ALLOW LONGITUDINAL MOVEMENT OF PENETRATING ITEM WITHOUT MOVEMENT OF FIRE BARRIER.
 4. WATERTIGHT WELDED 1"x1" 20 GAUGE MINIMUM GALVANIZED SHEET METAL ANGLE FRAME. BY CONTRACTOR IN EQUIPMENT ROOMS FOR WATER STOP. PLACE A BEAD OF WATERPROOF SEALANT BETWEEN FLOOR AND BOTTOM OF ANGLE FRAME. SECURE TO FLOOR WITH MASONRY ANCHORS IN CORNERS AND ON 12" MAXIMUM CENTERS. MULTIPLE PENETRATING ITEMS MAY BE ENCLOSED IN ONE FRAME.



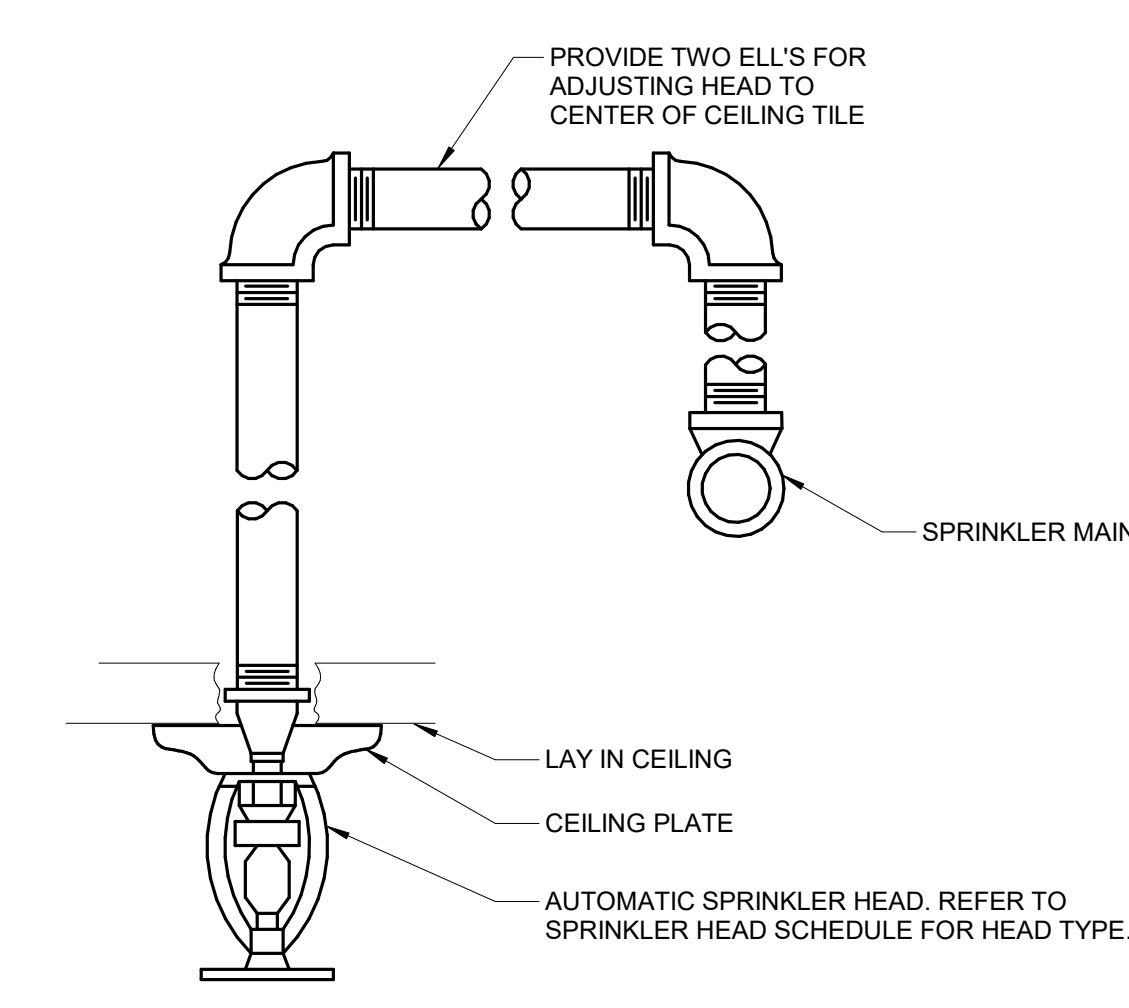
2 WALL PENETRATION - NON-FIRE RATED

NO SCALE NOTES:
 1. THIS DETAIL APPLIES TO ALL PIPES. THE INTENTION IS TO CONTINUE THE INSULATION AND VAPOR BARRIER THROUGH ALL PENETRATIONS. PERMIT THERMAL EXPANSION WITHOUT DAMAGING INSULATION, AND TO SEAL AIRTIGHT AROUND INSULATED AND UNINSULATED PIPES FOR NOISE TRANSMISSION CONTROL.
 2. SEE SPECIFICATION SECTION 21 13 13 FOR ADDITIONAL INFORMATION.
 3. FLOOR OPENINGS ARE SIMILAR. SEE SPECIFICATION SECTION 21 13 13 FOR DIFFERENCES BETWEEN FLOOR AND WALL PENETRATIONS.



3 SPRINKLER PIPE HANGER DETAIL

NO SCALE NOTES:
 1. THIS DETAIL APPLIES TO SPRINKLER PIPES ABOVE CEILING THAT SUPPLY PENDENT SPRINKLERS BELOW CEILINGS WHERE THE WATER PRESSURE EXCEEDS 100 PSIG (STATIC OR RESIDUAL).
 2. ALSO APPLIES TO ARMOR WHERE CUMULATIVE HORIZONTAL LENGTH IS GREATER THAN 12\"/>



4 SPRINKLER HEAD MOUNTING DETAIL

NO SCALE

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Drawing Title
FIRE PROTECTION DETAILS

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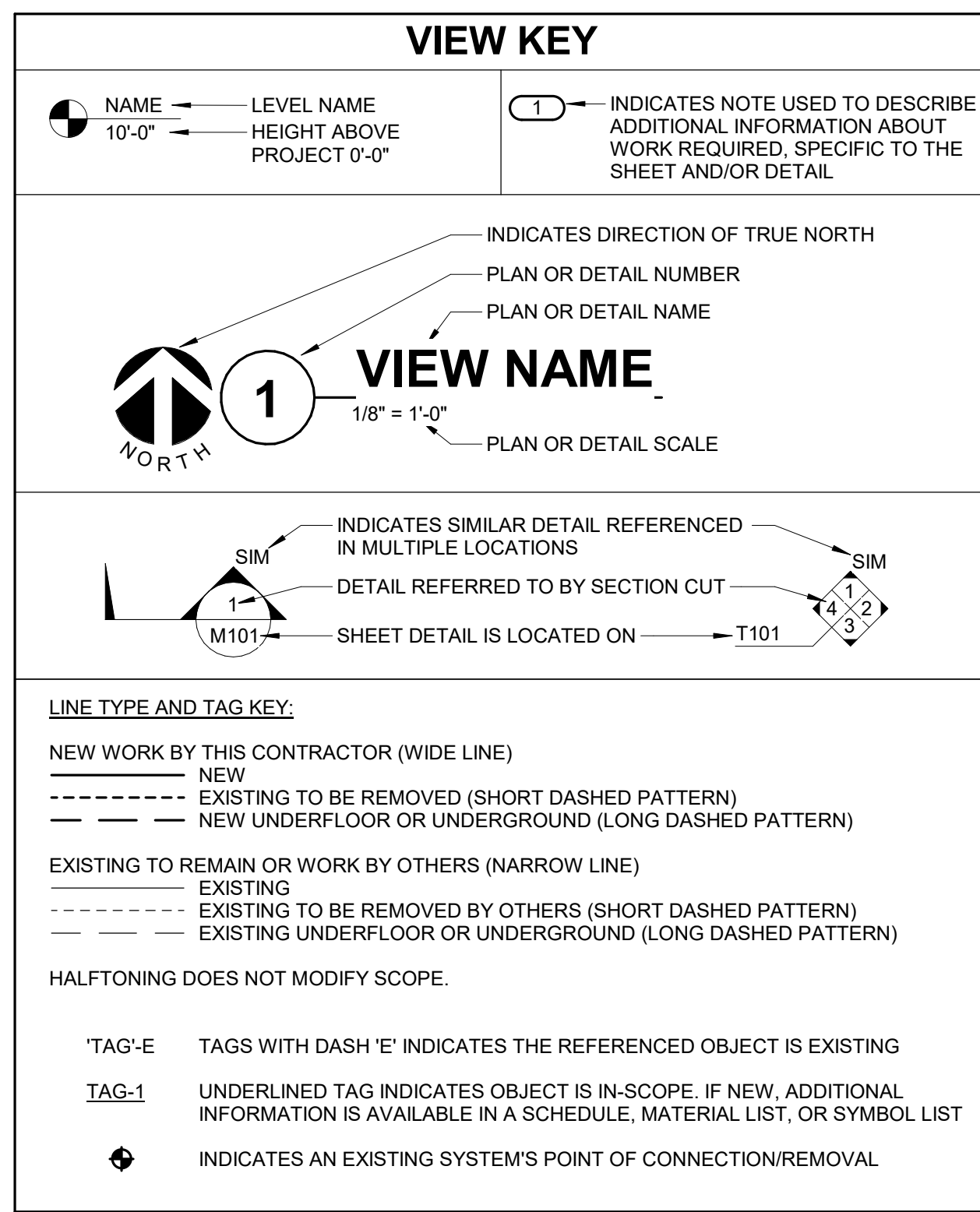
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 FP400



APPLICABLE CODES

CONTRACTOR SHALL COMPLY WITH APPLICABLE CODES AND LOCAL AMENDMENTS.

BUILDING CODE:	IBC 2021 EDITION
FIRE CODE:	IFC 2021 EDITION
PLUMBING CODE:	IPC 2021 EDITION
MECHANICAL CODE:	IMC 2021 EDITION
ELECTRICAL CODE:	NFPA 70 (NEC) 2020 EDITION
LIFE SAFETY CODE:	NFPA 101 2021 EDITION
ENERGY CONSERVATION CODE:	IECC 2021
HEALTH DEPARTMENT CODE:	CURRENT EDITION
LOCAL BUILDING CODE:	CURRENT EDITION

CONTRACTOR ABBREVIATION KEY

ABBR:	DESCRIPTION:
A.C.	ASBESTOS ABATEMENT CONTRACTOR
C.C.	CIVIL CONTRACTOR
C.O.R.	CONTRACTING OFFICER'S REPRESENTATIVE
E.C.	ELECTRICAL CONTRACTOR
F.P.C.	FIRE PROTECTION CONTRACTOR
G.C.	GENERAL CONTRACTOR
M.C.	MECHANICAL CONTRACTOR
P.C.	PLUMBING CONTRACTOR
T.C.	TECHNOLOGY CONTRACTOR
T.C.C.	TEMPERATURE CONTROLS CONTRACTOR

CONTACT PERSONS:

DESCRIPTION:	PERSON:
PROJECT MANAGER	ERIC J. HENDERSON, PE
MECHANICAL	DELLAN J. LLEWELLYN, PE
ELECTRICAL	KRISTEN SPINA, PE
TECHNOLOGY	DAMON M. DEEN

VENTILATION SHEET INDEX

MV000	VENTILATION COVERSHEET
MV001	PIPE BASEMENT DEMOLITION PLAN - VENTILATION
MV102	GROUND LEVEL FLOOR DEMOLITION PLAN - VENTILATION
MV112	FIRST LEVEL DEMOLITION PLAN - VENTILATION
MV091	PIPE BASEMENT FLOOR PLAN - VENTILATION
MV101	GROUND LEVEL FLOOR PLAN - VENTILATION
MV111	INTERSTITIAL/FIRST LEVEL FLOOR PLAN - VENTILATION
MV121	ROOF PLAN - VENTILATION
MV300	VENTILATION ENLARGED PLANS
MV301	VENTILATION ENLARGED PLANS
MV400	VENTILATION DETAILS
MV401	VENTILATION DETAILS
MV402	VENTILATION DETAILS
MV600	VENTILATION SCHEDULES
GRAND TOTAL: 14	

VENTILATION SYMBOL LIST

NOT ALL SYMBOLS MAY APPLY.

SYMBOL:	DESCRIPTION:
	DIRECTION OF AIR FLOW
	FLEXIBLE DUCT
	MANUAL VOLUME DAMPER
	DUCT CAP
	DUCT DOWN
	DUCT UP
	SUPPLY/OUTSIDE AIR DUCT SECTION
	RETURN AIR DUCT SECTION
	EXHAUST/RELIEF AIR DUCT SECTION
	4-WAY DIFFUSER WITH BLANKOFF IN ONE DIRECTION
	AIR TERMINAL PROPERTIES SYMBOL NECK SIZE/CFM
	TERMINAL AIR BOX (REFER TO SCHEDULE)
	TERMINAL AIR BOX W/REHEAT COIL (REFER TO SCHEDULE)
	HUMIDIFIER
	OPPOSED BLADE DAMPER (REFER TO SCHEDULE)
	PARALLEL BLADE DAMPER (REFER TO SCHEDULE)
	DIFFERENTIAL PRESSURE SENSOR
	HUMIDISTAT/SENSOR
	HUMIDISTAT/SENSOR (DUCT MOUNTED)
	PRESSURE SENSOR/MONITOR
	PRESSURE SENSOR (DUCT MOUNTED)
	THERMOSTAT/SENSOR
	TEMPERATURE SENSOR (DUCT MOUNTED)
	THERMOSTAT/SENSOR WITH HEAVY DUTY ENCLOSURE
	DUCT TRAVERSE MEASUREMENT LOCATION

VENTILATION ABBREVIATION KEY

ABBR:	DESCRIPTION:
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
CFSD	CONTROL FIRE/SMOKE DAMPER
DPG (0-2")	DIFFERENTIAL PRESSURE GAUGE (RANGE)
DPS	DIFFERENTIAL PRESSURE SWITCH
EA	EXHAUST/RELIEF AIR
FD	FIRE DAMPER
FSO	FIRE/SMOKE DAMPER
N.C.	NORMALLY CLOSED
NIC	NOT IN CONTRACT
N.O.	NORMALLY OPEN
OA	OUTSIDE AIR
RA	RETURN AIR
SA	SUPPLY AIR
SCCR	SHORT CIRCUIT CURRENT RATING
SD	SMOKE DAMPER
TAB	TERMINAL AIR BOX
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED

MECHANICAL GENERAL NOTES:

THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, FIRE PROTECTION, PLUMBING, VENTILATION, PIPING AND TEMPERATURE CONTROL.

- DRAWINGS SHOWING LOCATIONS OF EQUIPMENT, DUCTWORK, PIPING, ETC. ARE DIAGRAMMATIC AND MAY NOT ALWAYS REFLECT EXACT INSTALLATION CONDITIONS. DRAWINGS SHOW THE GENERAL ARRANGEMENT OF DUCTWORK, PIPING, EQUIPMENT, ETC., AND MAY NOT INCLUDE ALL OFFSETS AND FITTINGS REQUIRED FOR COMPLETE INSTALLATION. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND THE WORK OF OTHERS WILL PERMIT.
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- COORDINATE ALL WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION TO PROVIDE CLEARANCES REQUIRED FOR OPERATION, MAINTENANCE, CODE COMPLIANCE, AND TO VERIFY NON-INTERFERENCE WITH OTHER WORK. DO NOT FABRICATE PRIOR TO VERIFICATION OF NECESSARY CLEARANCES FOR ALL TRADES. BRING ANY INTERFERENCES OR CONFLICTS TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH FABRICATION OR EQUIPMENT ORDERS.
- REVIEW SPACE REQUIREMENTS OF EQUIPMENT SPECIFIED OR SUBSTITUTED AND MAKE REASONABLE ACCOMMODATIONS IN LAYOUT AND POSITIONING TO PROVIDE PROPER ACCESS.
- ANY CHANGES REQUIRED TO ELIMINATE CONFLICTS OR THAT RESULT FROM A FAILURE TO COORDINATE SHALL BE MADE BY THE CONTRACTOR WITHOUT ADDITIONAL COST OR EXPENSE TO OTHERS.
- EACH CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH ELECTRICAL CHANGES REQUIRED FOR EQUIPMENT PROPOSED THAT DIFFERS FROM THE BASIS OF DESIGN.
- REFER TO ARCHITECTURAL, REFLECTED CEILING PLAN, ELECTRICAL, TECHNOLOGY AUDIOVISUAL, AND OTHER MECHANICAL PLANS FOR EXACT LOCATIONS OF ALL CEILING MOUNTED DEVICES, OTHER THAN SPRINKLERS.
- EACH CONTRACTOR IS RESPONSIBLE FOR DAMAGE CAUSED BY THEIR ACTIONS TO WALLS, FLOORS, CEILINGS, AND ROOFS. THE CONTRACTOR WHOSE WORK CAUSES DAMAGE IS RESPONSIBLE FOR PATCHING TO MATCH ORIGINAL CONSTRUCTION, FIRE RATING, AND FINISH.
- IN AREAS WITH DRYWALL CEILINGS COORDINATE LOCATIONS OF ACCESS PANELS WITH THE GC FOR ACCESS TO VALVES, DUCTWORK ACCESSORIES, DAMPERS, ETC. COORDINATE PANEL TYPE AND COLOR WITH ARCHITECT. NOTIFY THE GC OF THE REQUIRED ACCESS PANELS PRIOR TO BIDDING.
- SEAL ALL FLOOR, WALL, AND ROOF PENETRATIONS AIRTIGHT WHERE CONDUITS, PIPING, AND DUCTS PENETRATE. PENETRATIONS THROUGH EXTERIOR WALLS AND ROOF SHALL BE SEALED AIRTIGHT WITH WATERPROOFING MATERIALS RECOMMENDED BY MANUFACTURER FOR OUTDOOR USE.
- CALL OUT ALL PIPE AND DUCT PENETRATIONS OF FULL HEIGHT NON-FIRE RATED WALL, PARTITION, FLOOR, AND ROOF ASSEMBLIES. THIS IS ESSENTIAL TO PREVENT NOISE TRANSMISSION FROM ONE ROOM TO ANOTHER AND TO PROVIDE THE DESIRED NC LEVELS WITHIN ROOMS.
- WHERE PIPES AND DUCTS ARE SHOWN TO PENETRATE FLOORS, PROVIDE SLEEVED OPENINGS WITH THE TOP EDGE RAISED ABOVE FLOOR SURFACE IN ACCORDANCE WITH ALL RELEVANT SPEC SECTIONS. SEAL SLEEVE PERIMETER TO BE WATER-TIGHT.
- EQUIPMENT SIZES AND SERVICE CLEARANCE REQUIREMENTS VARY AMONG DIFFERENT MANUFACTURERS. CONSULT APPROVED SHOP DRAWINGS FOR EQUIPMENT SIZES AND REQUIRED SERVICE CLEARANCES. COORDINATE WITH LAYOUT OF EQUIPMENT PADS, PIPING, DUCTWORK, ETC.
- DO NOT BLOCK TUBE PULL OR EQUIPMENT SERVICE CLEARANCES.
- MAINTAIN A MINIMUM WORKING CLEARANCE OF 3'-6" IN FRONT OF ALL ELECTRICAL EQUIPMENT REQUIRING MAINTENANCE, INSPECTION, AND TESTING INCLUDING BUT NOT LIMITED TO PANELS, DISTRIBUTION PANELS, SWITCHBOARDS, MOTOR CONTROL CENTERS, TRANSFORMERS, EQUIPMENT DISCONNECTS AND STARTERS.
- MAINTAIN THE DEDICATED ELECTRICAL EQUIPMENT SPACE DEFINED BY THE WIDTH / DEPTH OF ELECTRICAL EQUIPMENT MEASURED FROM THE FLOOR TO A HEIGHT 6'-0" ABOVE THE EQUIPMENT OR THE STRUCTURAL CEILING, WHICHEVER IS LOWER. SYSTEMS FOREIGN TO THE ELECTRICAL DISTRIBUTION SYSTEM ARE NOT ALLOWED IN THE DEDICATED ELECTRICAL SPACE INCLUDING: DUCTWORK, PIPING, ETC.
- PROVIDE CONCRETE EQUIPMENT PAD FOR ALL FLOOR MOUNTED EQUIPMENT. PAD SHALL EXTEND MINIMUM 6" BEYOND ALL SIDES OF EQUIPMENT.
- DO NOT SUPPORT EQUIPMENT, PIPING, OR DUCTWORK FROM METAL DECKING OR OTHER NON-STRUCTURAL BUILDING ELEMENTS. ANCHORS EMBEDDED IN CONCRETE SHALL BE CRACKED CONCRETE APPROVED IN ACCORDANCE WITH SPECIFICATIONS.

MECHANICAL RENOVATION NOTES:

THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, FIRE PROTECTION, PLUMBING, VENTILATION, PIPING AND TEMPERATURE CONTROL.

- EXISTING CONDITIONS ARE SHOWN BASED ON INFORMATION OBTAINED FROM FIELD SURVEYS, EXISTING BUILDING DOCUMENTS, AND STAFF. VERIFY EXISTING CONDITIONS AND REPORT ANY CONFLICTS BEFORE PROCEEDING.
- NOT ALL EXISTING DUCTWORK AND PIPING IS SHOWN. VERIFY EXISTING CONDITIONS BEFORE STARTING WORK. NOTIFY ENGINEER OF ANY CONFLICTS WITH NEW WORK.
- FIELD VERIFY THE AVAILABLE CLEARANCES FOR DUCTWORK AND PIPING BEFORE FABRICATION. RISES AND DROPS MAY BE NECESSARY BECAUSE OF EXISTING FIELD CONDITIONS.
- EACH CONTRACTOR SHALL FIELD VERIFY ACCESSIBILITY TO THE AREA OF THEIR WORK AND SHALL NOTIFY THE GENERAL CONTRACTOR PRIOR TO BIDDING IF OTHER UTILITIES ARE REQUIRED TO BE REMOVED OR RELOCATED TO ALLOW ACCESS TO THEIR AREA OF WORK.
- THE GENERAL CONTRACTOR IS RESPONSIBLE FOR CUTTING, REMOVAL AND PATCHING OF ROOFS, WALLS, AND FLOORS ASSOCIATED WITH WORK BY ALL CONTRACTORS.
- CONTRACTORS SHALL NOTIFY THE GC OF AFFECTED AREAS PRIOR TO BIDDING.
- THE GENERAL CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF CEILINGS, CEILING TILES, AND CEILING GRIDS ASSOCIATED WITH AREAS OF WORK BY ALL CONTRACTORS. NOTIFY THE GENERAL CONTRACTOR OF AFFECTED AREAS PRIOR TO BIDDING.
- WHERE EXISTING MECHANICAL SYSTEMS ARE LOCATED IN AREAS THAT CONFLICT WITH NEW EQUIPMENT, PIPING, OR DUCTWORK TO BE INSTALLED, EACH CONTRACTOR SHALL EITHER ARRANGE NEW EQUIPMENT, PIPING, OR DUCTWORK IN SUCH A FASHION THAT IT DOES NOT CONFLICT WITH EXISTING SYSTEMS, OR REWORK EXISTING MECHANICAL SYSTEMS TO ALLOW FOR INSTALLATION OF NEW EQUIPMENT, PIPING, OR DUCTWORK.
- PROVIDE TEMPORARY CONNECTIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING CONSTRUCTION. MAINTAIN ACCESS TO EXISTING MECHANICAL INSTALLATIONS THAT REMAIN ACTIVE.
- OBTAIN PERMISSION FROM OWNER BEFORE SHUTTING DOWN ANY SYSTEM FOR ANY REASON. MAINTAIN SERVICE TO ALL COMPONENTS THAT ARE TO REMAIN UNTIL NEW SYSTEMS ARE INSTALLED.
- MAINTAIN EXISTING SYSTEM IN SERVICE UNTIL NEW SYSTEM IS COMPLETE AND READY FOR TIE IN AND SWITCHOVER. DRAIN SYSTEM ONLY TO MAKE SWITCHOVERS AND CONNECTIONS. OBTAIN PERMISSION FROM OWNER BEFORE PARTIALLY OR COMPLETELY DRAINING SYSTEM. MAKE CHANGEOVER TO NEW SYSTEMS WITH MINIMUM OUTAGE.
- DISCONNECT AND REMOVE MECHANICAL DEVICES AND EQUIPMENT SERVING EQUIPMENT THAT HAS BEEN REMOVED.

VENTILATION GENERAL NOTES:

- UNLESS NOTED OTHERWISE, THE SIZE OF EACH BRANCH DUCT TO A TERMINAL AIR BOX (TAB) SHALL MATCH THE INLET SIZE UNLESS THE BRANCH IS GREATER THAN FEET IN LENGTH, IN WHICH CASE THE BRANCH DUCT SHALL BE SIZED AT A PRESSURE DROP OF 0.07" W.C. PER 100' OF DUCTWORK.
- UNLESS NOTED OTHERWISE, THE SIZE OF EACH BRANCH DUCT TO AN AIR TERMINAL SHALL MATCH THE INLET SIZE.
- ALIGN TEMPERATURE SENSORS WITH LIGHT SWITCHES AND WHEN IN CLOSE PROXIMITY TO EACH OTHER.
- PROVIDE ACCESS DOORS AT ALL DUCT MOUNTED EQUIPMENT.
- EXISTING AIR INLET AND OUTLET CFM SHOWN ON DRAWINGS ARE FROM EXISTING DRAWINGS, AND ARE FOR REFERENCE ONLY. CONTRACTOR SHALL USE PRE-BALANCE VALUES, AND NOT EXISTING CFM SHOWN ON DRAWINGS.
- CONTRACTOR MAY REUSE PORTIONS OF EXISTING DUCT PROVIDED SIZES AND PRESSURE CLASSES ARE CORRECT. DUCT IS THOROUGHLY CLEANED AND FREE OF DEFECTS, AND ALL TRANSVERSE JOINTS, LONGITUDINAL SEAMS, AND DUCT WALL PENETRATIONS ARE SEALED AS SPECIFIED FOR NEW DUCTWORK.

TAB PRE-DEMOLITION NOTES:

- BEFORE ANY DEMOLITION WORK IS BEGUN A COMPLETE AIR BALANCE TEST SHALL BE PERFORMED BY THE TESTING, ADJUSTING AND BALANCING (TAB) CONTRACTOR ON EXISTING AIR HANDLERS AND EXHAUST FANS SERVING THE AREAS AFFECTED BY CONSTRUCTION EQUIPMENT TO BE DEMOLISHED. TESTING SHALL REQUIRE TESTING PROVIDE AIR BALANCE TESTING ONLY ON EQUIPMENT THAT WILL CONTINUE TO BE USED TO SERVE RENOVATED AREAS AFTER THE CONSTRUCTION PHASE IS COMPLETED.
- PROVIDE DUCT TRAVERSE READINGS AT LOCATIONS DESIGNATED ON THE DRAWINGS BY THE "AIRFLOW MEASUREMENT SYMBOL". THOSE MEASUREMENTS SHALL BE INCLUDED IN THE PRE-DEMOLITION REPORT AND SHALL BE DESIGNATED WITH THE IDENTIFIER AS MARKED ON THE DRAWINGS. READINGS SHALL BE DESIGNATED WITH THE ROOM NAME AND NUMBER AS MARKED ON THE DRAWINGS. IF FLOOR PLANS DO NOT HAVE UNIQUE ROOM NAMES AND NUMBERS, TAB CONTRACTOR SHALL INCLUDE FLOOR PLAN WITH UNIQUE NUMBER DESIGNATIONS ASSIGNED TO READINGS THAT MATCH THOSE USED IN THE FINAL PRE-DEMOLITION REPORT. DRAWINGS THAT ARE HAND-MARKED WITH RED INK ARE ACCEPTABLE, PROVIDED THEY ARE LEGIBLE.
- IN THE EVENT A DUCT TRAVERSE LOCATION AS MARKED ON THIS PLAN IS INACCESSIBLE FOR MEASUREMENT, THE TAB CONTRACTOR SHALL PERFORM THE TRAVERSE AT AN ALTERNATE LOCATION OR SHALL TAKE MULTIPLE DUCT TRAVERSES AND/OR READINGS AS REQUIRED TO DETERMINE THE AIRFLOW READING WHERE THE DUCT TRAVERSE SYMBOL IS SHOWN. IN THE EVENT TRAVERSES ARE TAKEN AT ALTERNATE LOCATION(S), TAB CONTRACTOR SHALL INCLUDE A DRAWING THAT SHOWS THE LOCATIONS WHERE THE ACTUAL MEASUREMENTS WERE TAKEN.
- TAKE A DUCT STATIC PRESSURE READING AT EACH LOCATION WHERE A DUCT TRAVERSE READING IS TAKEN AND INCLUDE IN THE FINAL PRE-DEMOLITION TAB REPORT.
- TAB CONTRACTOR SHALL COMPILE AND SUBMIT FOUR COPIES OF THE FINAL PRE-DEMOLITION REPORT WITHIN 10 WORKING DAYS AFTER THE FIELD MEASUREMENTS ARE COMPLETED. FINAL TAB REPORT SHALL BE SUBMITTED FOR REVIEW TO THE ARCHITECT/ENGINEER. TESTING SHALL INCLUDE ALL ITEMS REQUIRED IN THE SPECIFICATIONS.
- TAB CONTRACTOR SHALL PROVIDE DUCT TRAVERSE READINGS AT LOCATIONS DESIGNATED ON THE DRAWINGS BY THE "AIRFLOW MEASUREMENT SYMBOL". THOSE MEASUREMENTS SHALL BE INCLUDED IN THE POST-CONSTRUCTION REPORT AND SHALL BE DESIGNATED WITH THE IDENTIFIER AS MARKED ON THE CONSTRUCTION DRAWINGS. GRILLE AND DIFFUSER READINGS SHALL BE DESIGNATED WITH THE ROOM NAME AND NUMBER AS MARKED ON THE DRAWINGS. IF THE DRAWINGS DO NOT HAVE UNIQUE ROOM NAMES AND NUMBERS, TAB CONTRACTOR SHALL INCLUDE FLOOR PLANS WITH UNIQUE NUMBER DESIGNATIONS ASSIGNED TO TRAVERSES, GRILLES, AND DIFFUSERS THAT MATCH THOSE USED IN THE FINAL PRE-DEMOLITION REPORT. SIMILAR ROOM NAMES, NUMBERS, OR DESIGNATIONS SHALL BE USED TO SIMPLIFY THE CROSS-REFERENCING OF READINGS TAKEN BETWEEN PRE-DEMOLITION AND POST-CONSTRUCTION REPORTS.
- BALANCING CONTRACTOR SHALL PRE-BALANCE ALL EXISTING SYSTEMS TO REMAIN PER SPECIFICATION SECTION 23 05 93. BALANCE READINGS WILL BE REQUIRED AT AIR OUTLETS AND DUCT TRAVERSES TO VERIFY EXISTING AIRFLOW TO UNAFFECTED SPACES.

TAB POST-CONSTRUCTION NOTES:

- AFTER CONSTRUCTION ACTIVITIES ARE COMPLETE, TESTING, ADJUSTING (TAB) AND BALANCING CONTRACTOR SHALL REBALANCE AIR HANDLING UNITS AND EXHAUST FANS AS REQUIRED TO ACHIEVE THE NEW AIRFLOW VALUES SHOWN ON THE CONSTRUCTION DRAWINGS.
- AREAS SERVED BY THIS EQUIPMENT WHICH WERE NOT RENOVATED SHALL BE RE-BALANCED TO THE AIRFLOW RATES MEASURED BEFORE THE RENOVATION OCCURRED (REFER TO THE FINAL PRE-DEMOLITION REPORT).
- IF DUCT TRAVERSE LOCATION AS MARKED ON THE DRAWINGS IS INACCESSIBLE FOR MEASUREMENT, THE TAB CONTRACTOR SHALL PERFORM THE TRAVERSE AT AN ALTERNATE LOCATION OR SHALL TAKE MULTIPLE DUCT TRAVERSES AND/OR GRILLE READINGS AS REQUIRED TO DETERMINE THE FLOW RATE. IN THE EVENT TRAVERSES ARE TAKEN AT AN ALTERNATE LOCATION(S), TAB CONTRACTOR SHALL INCLUDE A DRAWING THAT SHOWS THE LOCATIONS WHERE THE ACTUAL MEASUREMENTS WERE TAKEN.
- A DUCT STATIC PRESSURE READING SHALL BE TAKEN AT EACH LOCATION WHERE A DUCT TRAVERSE READING IS TAKEN AND SHALL BE INCLUDED IN THE FINAL POST-CONSTRUCTION TAB REPORT.
- TAB CONTRACTOR SHALL COMPILE AND SUBMIT COPIES OF THE FINAL POST-CONSTRUCTION TAB REPORT AS REQUIRED BY SECTION 23 05 93.
- THE FINAL POST-CONSTRUCTION REPORT SHALL INCLUDE ALL ITEMS REQUIRED IN THE SPECIFICATIONS.

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Revisions:	Date:

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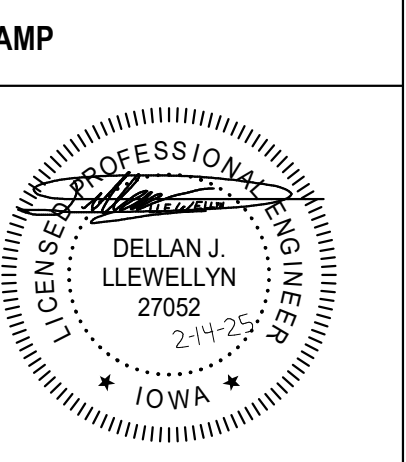
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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title

VENTILATION COVERSHEET

Approved:

Phase

BID DOCUMENTS

FULLY SPRINKLERED

Project Title

CONSTRUCT NEW SPS

Location

Sioux Falls, SD.

Issue Date

02/14/2025

Checked

DAVING

Drawn

DELLE

Project Number

438-460

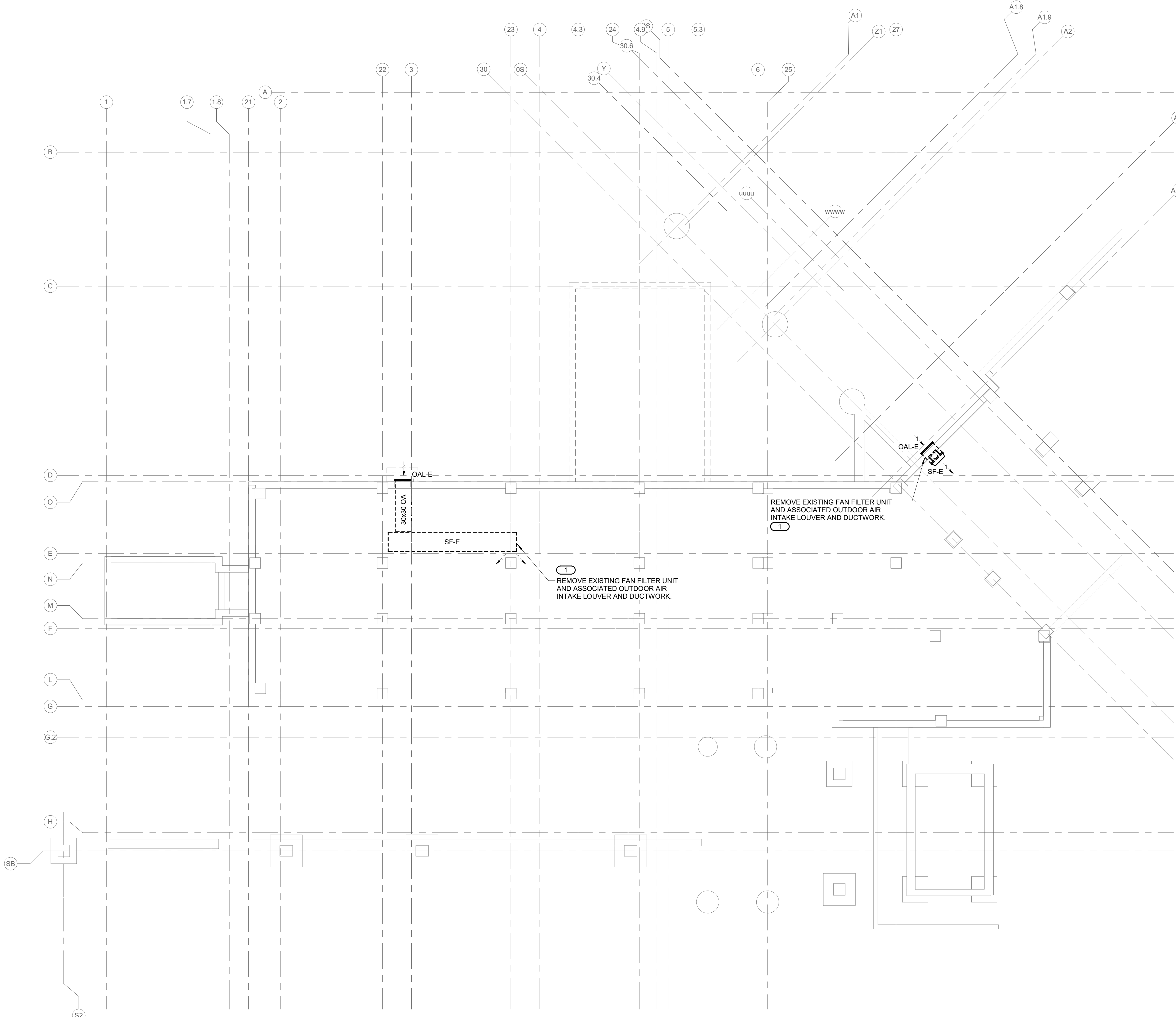
Building Number

5

Drawing Number

MV000

- GENERAL VENTILATION DEMOLITION NOTES:**
- REFERENCE MV000 - VENTILATION COVERSHEET FOR VENTILATION SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES.
 - EXISTING CONDITIONS ARE SHOWN BASED ON INFORMATION OBTAINED FROM FIELD SURVEYS, EXISTING BUILDING DOCUMENTS, AND STAFF. VERIFY EXISTING CONDITIONS AND REPORT ANY CONFLICTS BEFORE PROCEEDING.
 - COMPLETE LAYOUT DRAWINGS SHALL BE REQUIRED BY SPECIFICATION SECTION 23 05 11. CONSTRUCTION WORK SHALL NOT BEGIN UNTIL SYSTEM LAYOUT DRAWINGS HAVE BEEN APPROVED BY THE C.O.R.
 - CONTRACTOR SHALL MINIMIZE DOWNTIME OF EXISTING SYSTEMS BY INSTALLING NEW SYSTEMS PRIOR TO TYING INTO EXISTING. NOTIFY THE C.O.R. A MINIMUM OF 24 HOURS PRIOR TO SYSTEM SHUTDOWN.
 - DEMOLISH ALL EXISTING HANGERS, INSULATION, DAMPERS, AND ACCESSORIES ASSOCIATED WITH MECHANICAL EQUIPMENT, DUCTWORK, AND PIPING SHOWN TO BE REMOVED ON THESE PLANS UNLESS OTHERWISE NOTED.
 - DEMOLISH ALL EXISTING CONTROL DEVICES, WIRING, AND CONDUIT ASSOCIATED WITH MECHANICAL EQUIPMENT SHOWN TO BE REMOVED ON THESE PLANS UNLESS OTHERWISE NOTED.
 - NOT ALL MECHANICAL DEMOLITION IS EXPLICITLY SHOWN ON THE DRAWINGS. CONTRACTOR SHALL CONFIRM EXTENT OF DEMOLITION AT SITE.
- KEYNOTES: (#)**
- EXISTING FAN FILTER UNITS ARE UTILIZED TO TEMPER THE PIPE BASEMENT IN COOLING MONTHS WITHOUT A MEANS OF MECHANICAL COOLING BY SUPPLYING OUTDOOR AIR.



1 PIPE BASEMENT DEMOLITION PLAN - VENTILATION
1/8" = 1'-0"



Revisions:	Date:

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Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

Drawing Title
PIPE BASEMENT DEMOLITION PLAN - VENTILATION

Approved:

Phase
BID DOCUMENTS

FULLY SPRINKLERED

Project Title
CONSTRUCT NEW SPS

Location
Sioux Falls, SD.

Issue Date
02/14/2025

Checked
DAVING

Drawn
DELLE

Project Number
438-460

Building Number
5

Drawing Number
MVD091

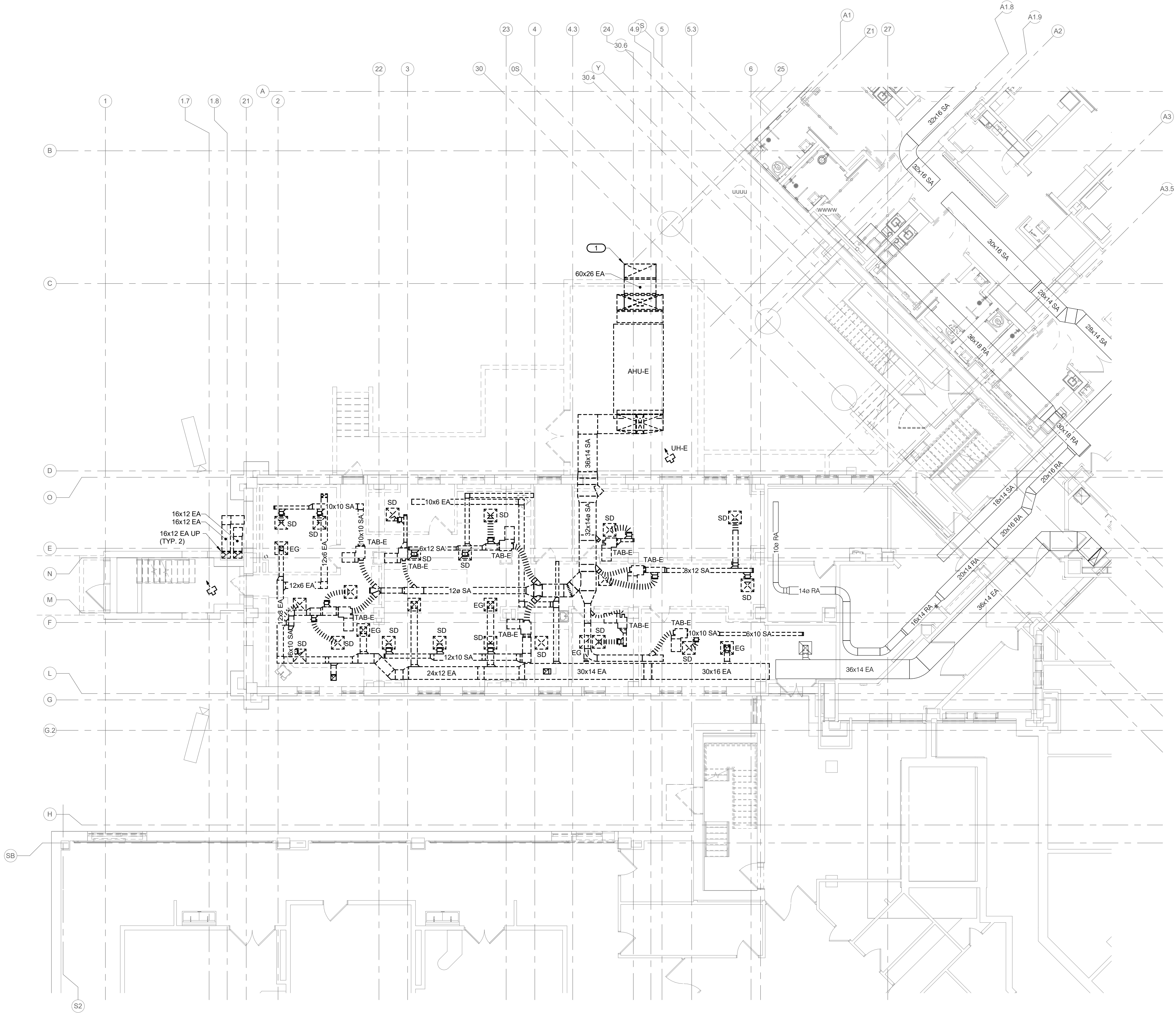
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GENERAL VENTILATION DEMOLITION NOTES:

1. REFERENCE MV000 - VENTILATION COVERSHEET FOR VENTILATION SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES.
2. EXISTING CONDITIONS ARE SHOWN BASED ON INFORMATION OBTAINED FROM FIELD SURVEYS, EXISTING BUILDING DOCUMENTS, AND STAFF. VERIFY EXISTING CONDITIONS AND REPORT ANY CONFLICTS BEFORE PROCEEDING.
3. COMPLETE LAYOUT DRAWINGS SHALL BE REQUIRED BY SPECIFICATION SECTION 23 05 11. CONSTRUCTION WORK SHALL NOT BEGIN UNTIL SYSTEM LAYOUT DRAWINGS HAVE BEEN APPROVED BY THE C.O.R.
4. CONTRACTOR SHALL MINIMIZE DOWNTIME OF EXISTING SYSTEMS BY INSTALLING NEW SYSTEMS PRIOR TO TYING INTO EXISTING. NOTIFY THE C.O.R. A MINIMUM OF 24 HOURS PRIOR TO SYSTEM SHUTDOWN.
5. DEMOLISH ALL EXISTING HANGERS, INSULATION, DAMPERS, AND ACCESSORIES ASSOCIATED WITH MECHANICAL EQUIPMENT, DUCTWORK, AND PIPING SHOWN TO BE REMOVED ON THESE PLANS UNLESS OTHERWISE NOTED.
6. DEMOLISH ALL EXISTING CONTROL DEVICES, WIRING, AND CONDUIT ASSOCIATED WITH MECHANICAL EQUIPMENT SHOWN TO BE REMOVED ON THESE PLANS UNLESS OTHERWISE NOTED.
7. NOT ALL MECHANICAL DEMOLITION IS EXPLICITLY SHOWN ON THE DRAWINGS. CONTRACTOR SHALL CONFIRM EXTENT OF DEMOLITION AT SITE.

KEYNOTES: #

1. REMOVE EXISTING 60x26 OUTDOOR AIR INTAKE GOOSENECK. GOOSENECK IS APPROXIMATELY 11 FEET TALL.



1 GROUND LEVEL FLOOR DEMOLITION PLAN - VENTILATION
1/8" = 1'-0"

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Revisions:	Date:

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
 GROUND LEVEL FLOOR DEMOLITION PLAN - VENTILATION

Approved:

Phase
 BID DOCUMENTS

FULLY SPRINKLERED

Project Title
 CONSTRUCT NEW SPS

Location
 Sioux Falls, SD.

Issue Date
 02/14/2025

Checked
 DAVING

Drawn
 DELLE

Project Number
 438-460

Building Number
 5

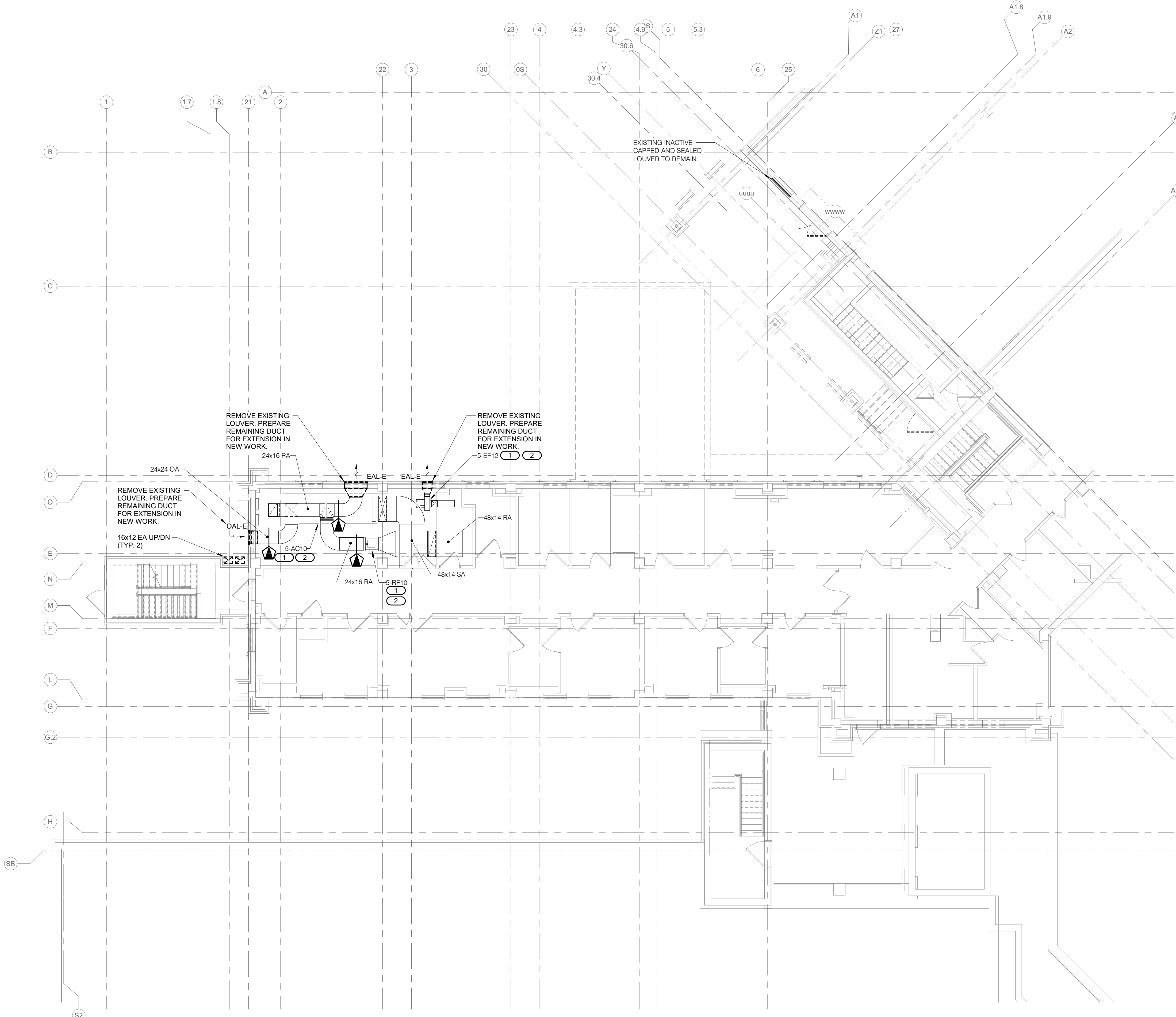
Drawing Number
 MVD102

GENERAL VENTILATION DEMOLITION NOTES:

1. REFERENCE MV000 - VENTILATION COVERSHEET FOR VENTILATION SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES.
2. EXISTING CONDITIONS ARE SHOWN BASED ON INFORMATION OBTAINED FROM FIELD SURVEYS, EXISTING BUILDING DOCUMENTS, AND STAFF. VERIFY EXISTING CONDITIONS AND REPORT ANY CONFLICTS BEFORE PROCEEDING.
3. COMPLETE LAYOUT DRAWINGS SHALL BE REQUIRED BY SPECIFICATION SECTION 23 05 11. CONSTRUCTION WORK SHALL NOT BEGIN UNTIL SYSTEM LAYOUT DRAWINGS HAVE BEEN APPROVED BY THE C.O.R.
4. CONTRACTOR SHALL MINIMIZE DOWNTIME OF EXISTING SYSTEMS BY INSTALLING NEW SYSTEMS PRIOR TO TYING INTO EXISTING. NOTIFY THE C.O.R. A MINIMUM OF 24 HOURS PRIOR TO SYSTEM SHUTDOWN.
5. DEMOLISH ALL EXISTING HANGERS, INSULATION, DAMPERS, AND ACCESSORIES ASSOCIATED WITH MECHANICAL EQUIPMENT, DUCTWORK, AND PIPING SHOWN TO BE REMOVED ON THESE PLANS UNLESS OTHERWISE NOTED.
6. DEMOLISH ALL EXISTING CONTROL DEVICES, WIRES, AND CONDUIT ASSOCIATED WITH MECHANICAL EQUIPMENT SHOWN TO BE REMOVED ON THESE PLANS UNLESS OTHERWISE NOTED.
7. NOT ALL MECHANICAL DEMOLITION IS EXPLICITLY SHOWN ON THE DRAWINGS. CONTRACTOR SHALL CONFIRM EXTENT OF DEMOLITION AT SITE.

KEYNOTES: #

1. PRIOR TO DEMOLITION OF EXISTING LOUVERS, AN AIR BALANCE TEST SHALL BE PERFORMED BY THE TESTING, ADJUSTING, AND BALANCING CONTRACTOR ON EXISTING 5-AC10, 5-RF10, AND 5-EF12 AIRFLOW AND DUCT PRESSURE READINGS SHALL BE RECORDED FOR THE INDICATED LOCATIONS IN A PRE-DEMOLITION REPORT. FOLLOWING CONSTRUCTION, THESE SYSTEMS SHALL BE RE-BALANCED TO THE PRE-DEMOLITION VALUES.
2. DOWNTIME OF EXISTING MECHANICAL SYSTEMS 5-AC10, 5-RF10, AND 5-EF12 SHALL BE MINIMIZED BY INSTALLING NEW DUCTWORK AND HOODS TO THE GREATEST EXTENT POSSIBLE PRIOR TO DEMOLITION OF LOUVERS AND CHANGEOVER. INSTALL TEMPORARY FILTER MEDIA OVER OUTSIDE AIR INTAKE; THE MECHANICAL CONTRACTOR SHALL COMPLETE ANY CLEANING REQUIRED FOR EXISTING SYSTEMS WHICH ARE AFFECTED BY CONSTRUCTION DUST AND DEBRIS.



1 FIRST LEVEL DEMOLITION PLAN - VENTILATION
1/8" = 1'-0"

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
 FIRST LEVEL DEMOLITION PLAN - VENTILATION

Approved:

Phase
 BID DOCUMENTS

FULLY SPRINKLERED

Project Title
 CONSTRUCT NEW SPS

Location
 Sioux Falls, SD.

Issue Date
 02/14/2025

Checked
 DAVING

Drawn
 DELLE

Project Number
 438-460

Building Number
 5

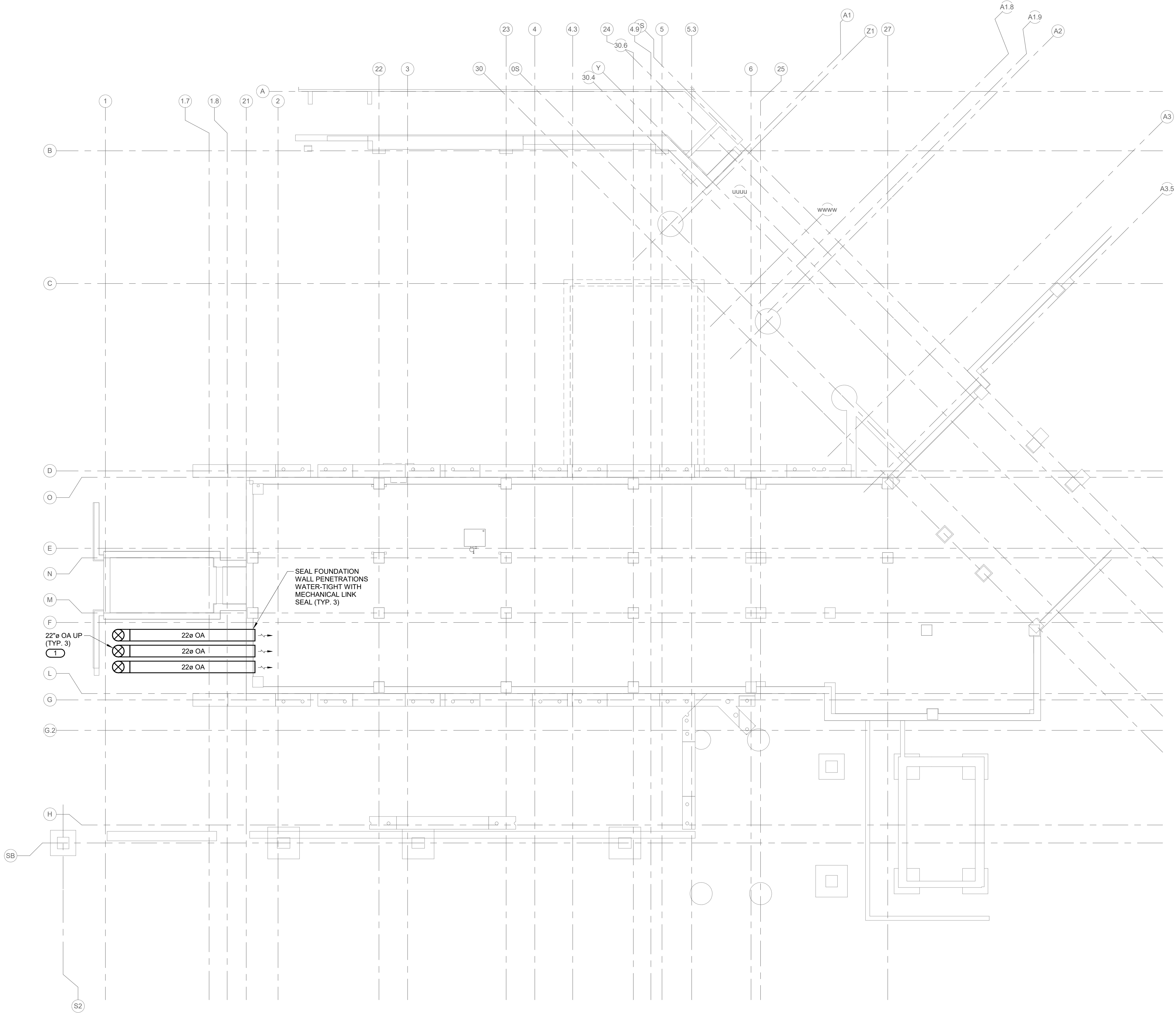
Drawing Number
 MVD112

GENERAL VENTILATION NOTES:

1. REFERENCE MV000 - VENTILATION COVERSHEET FOR VENTILATION SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES.
2. COORDINATE AND CONFIRM ALL ARCHITECTURALLY EXPOSED DEVICE LOCATIONS WITH ARCHITECT PRIOR TO ROUGH-IN OR INSTALLATION.
3. REFERENCE MV600 FOR VENTILATION SCHEDULES.

KEYNOTES: (#)

1. OUTSIDE AIR DUCTWORK SHALL TRANSITION TO FIBERGLASS REINFORCED MATERIAL PRIOR TO SLAB PENETRATION AND SHALL REMAIN AS SUCH WHILE UNDERGROUND THROUGH THE FOUNDATION WALL. PENETRATION IN THE PIPE BASEMENT SLOPE HORIZONTAL UNDERGROUND DUCTWORK TOWARDS THE PIPE BASEMENT. REFERENCE SPECIFICATION SECTION 23 31 00 FOR ADDITIONAL INFORMATION.



1 PIPE BASEMENT FLOOR PLAN - VENTILATION
1/8" = 1'-0"

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VA U.S. Department
of Veterans
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Drawing Title
PIPE BASEMENT FLOOR PLAN - VENTILATION

Approved:

Phase
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Project Title
CONSTRUCT NEW SPS

Location
Sioux Falls, SD.

Issue Date
02/14/2025

Checked
DAVING

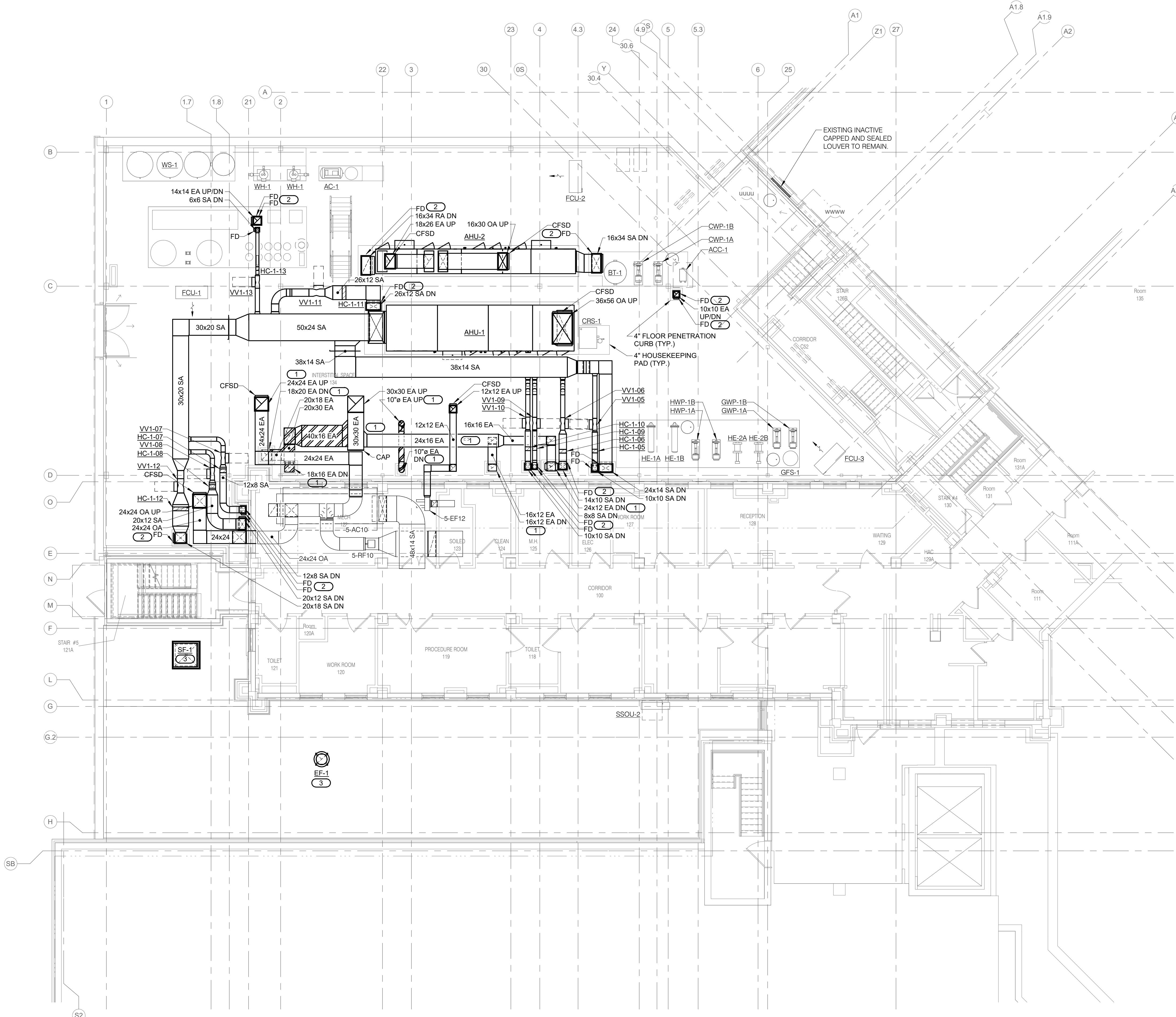
Drawn
DELLE

Project Number
438-460

Building Number
5

Drawing Number
MV091

- GENERAL VENTILATION NOTES:**
1. REFERENCE MV000 - VENTILATION COVERSHEET FOR VENTILATION SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES.
 2. COORDINATE AND CONFIRM ALL ARCHITECTURALLY EXPOSED DEVICE LOCATIONS WITH ARCHITECT PRIOR TO ROUGH-IN OR INSTALLATION.
 3. REFERENCE MV600 FOR VENTILATION SCHEDULES.
 4. THE SIZE OF BRANCH DUCTS TO TERMINAL AIR BOXES AND AIR OUTLETS SHALL MATCH THEIR INLET SIZE UNLESS OTHERWISE NOTED.
 5. ALL FLOOR PENETRATIONS THROUGH MECHANICAL ROOM FLOOR SHALL BE MADE WITH A 4" THICK WATER LEAK RESISTANT CONCRETE CURB INSTALLED BY THE GENERAL CONTRACTOR. CURBS DEPICTED ON THESE PLANS ARE GENERIC IN NATURE. MECHANICAL CONTRACTOR SHALL COORDINATE EXACT SIZES AND LOCATIONS OF CURBS WITH GENERAL CONTRACTOR, WHERE FEASIBLE. CONGREGATE FLOOR PENETRATIONS OF DUCTWORK, MECHANICAL PIPING, AND PLUMBING PIPING INTO COMBINED CURB/PENETRATION GROUPS.
 6. REFERENCE 1/MV400 FOR BRANCH CONNECTIONS DETAIL.
 7. REFERENCE 2/MV400 FOR DUCT REINFORCEMENT DETAIL.
 8. REFERENCE 3/MV400 FOR ELBOW CONSTRUCTION DETAIL.
 9. REFERENCE 4/MV400 FOR LONGITUDINAL SEAMS DETAIL.
 10. REFERENCE 5/MV400 FOR TRAPEZOIDAL DUCT WRAP VAPOR SEAL DETAIL.
 11. REFERENCE 6/MV400 FOR DIFFUSER CONNECTION DETAIL.
 12. REFERENCE 1/MV401 FOR TERMINAL AIR BOX DETAIL.
 13. REFERENCE 2/MV401 FOR COIL-IN-DUCT DETAIL.
- KEYNOTES: (#)**
1. ALL EXHAUST AIR DUCTWORK ASSOCIATED WITH E-2 AND CART WASHER EXHAUST FROM ROOF PENETRATION TO INDIVIDUAL EXHAUST GRILLES SHALL BE WRAPPED WITH FIRE RATED INSULATION TO CREATE A 2-HR FIRE SEPARATION RATING WITH ZERO CLEARANCE TO COMBUSTIBLE MATERIALS.
 2. REFERENCE 6/MV400 FOR FIRE DAMPER THRU FLOOR DETAIL.
 3. REFERENCE 3/MV401 FOR FANHOOD CURB ROOF SUPPORT DETAIL.



1 INTERSTITIAL/FIRST LEVEL FLOOR PLAN - VENTILATION
1/8" = 1'-0"

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Revisions:	Date:

CONSULTANT

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PROJECT # 19004249.04

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STAMP

Professional Engineer
Dellan J. Llewellyn
27052
IOWA

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
INTERSTITIAL/FIRST LEVEL FLOOR PLAN - VENTILATION

Approved:

Phase
BID DOCUMENTS

FULLY SPRINKLERED

Project Title
CONSTRUCT NEW SPS

Location
Sioux Falls, SD.

Issue Date
02/14/2025

Checked
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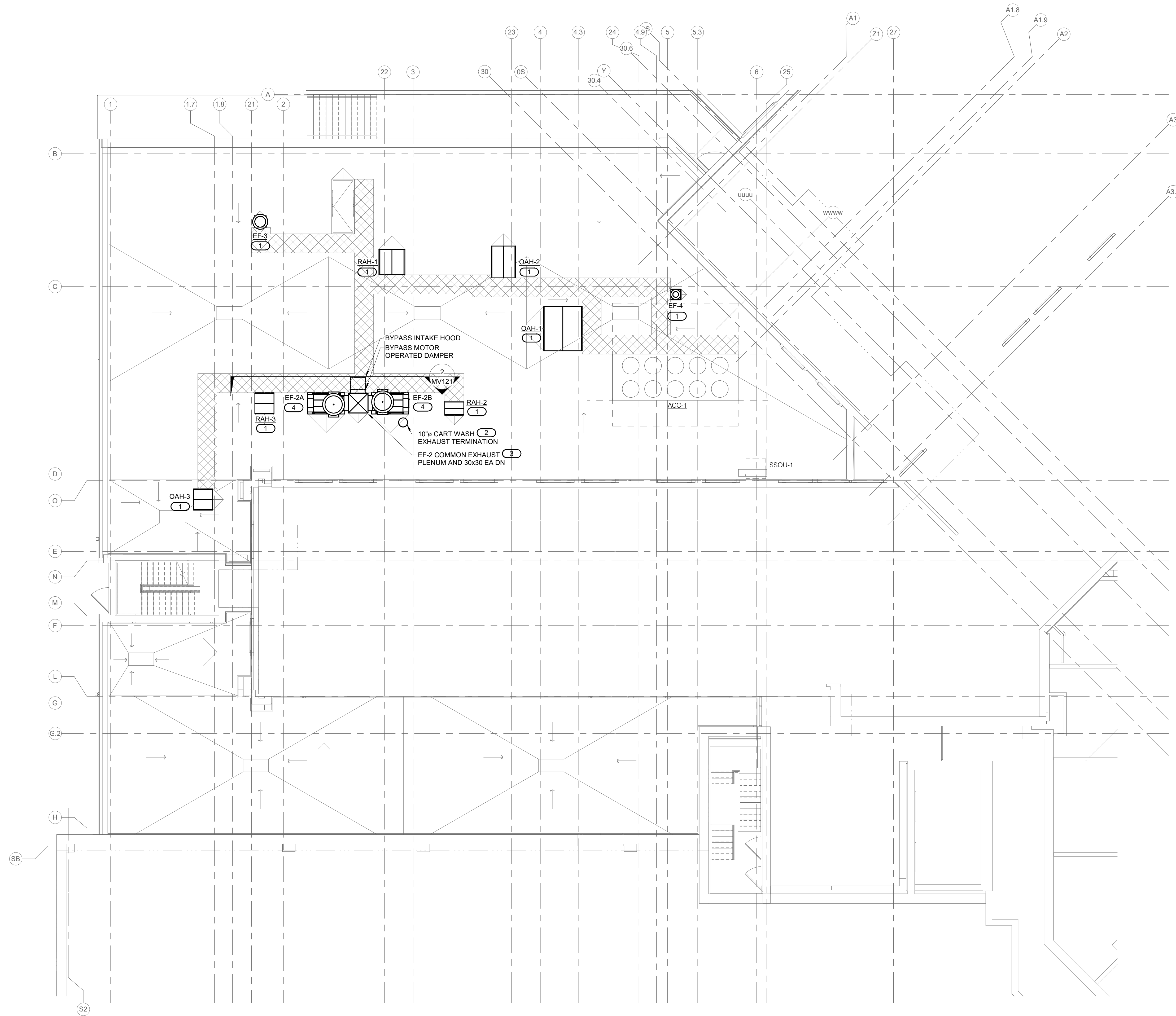
Drawn
DELLE

Project Number
438-460

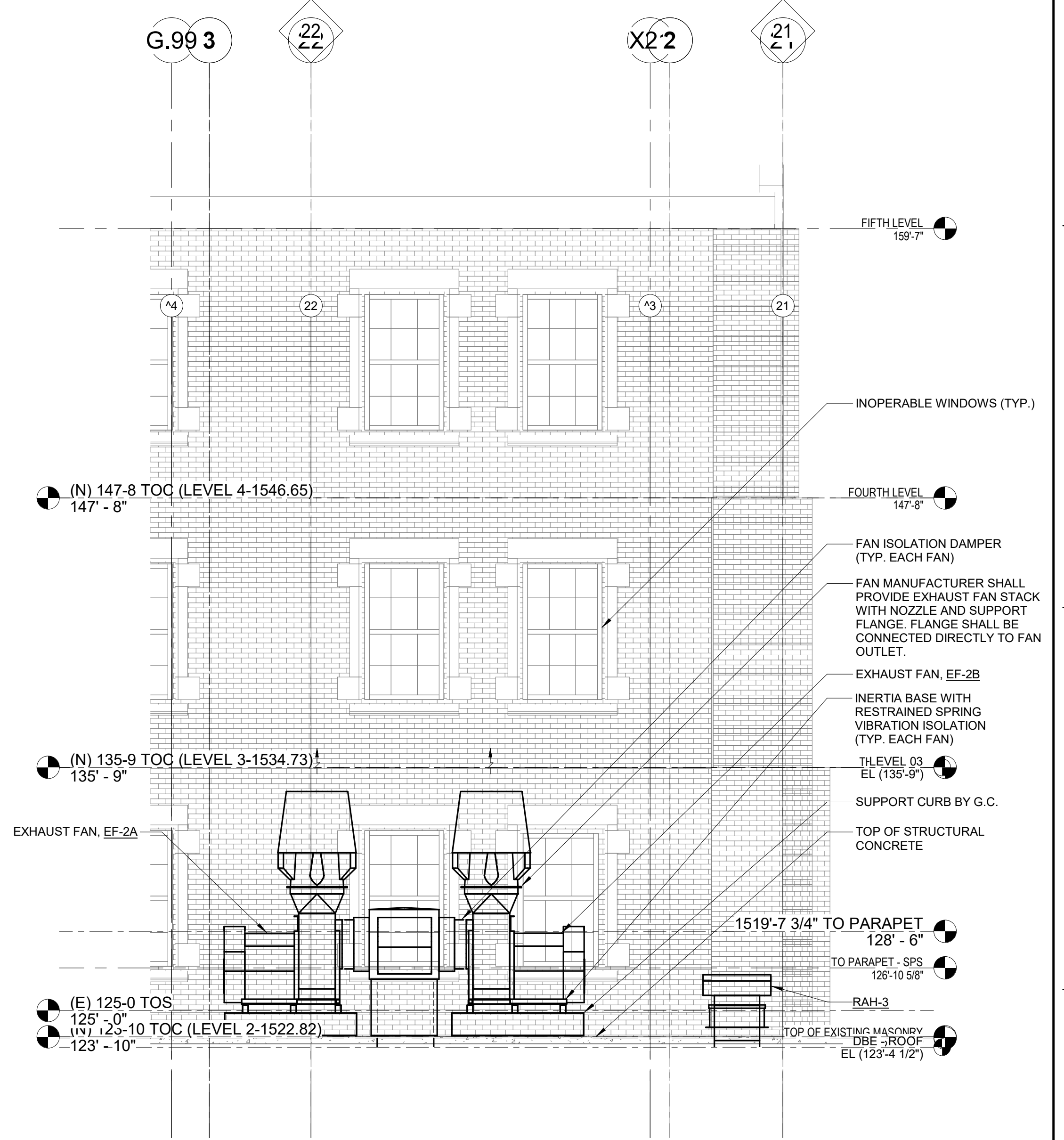
Building Number
5

Drawing Number
MV111

- GENERAL VENTILATION NOTES:**
1. REFERENCE MV000 - VENTILATION COVERSHEET FOR VENTILATION SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES.
 2. COORDINATE AND CONFIRM ALL ARCHITECTURALLY EXPOSED DEVICE LOCATIONS WITH ARCHITECT PRIOR TO ROUGH-IN OR INSTALLATION.
 3. REFERENCE MV600 FOR VENTILATION SCHEDULES.
- KEYNOTES: (#)**
1. REFERENCE 3M/V401 FOR FANHOOD CURB ROOF SUPPORT DETAIL.
 2. REFERENCE 4M/V401 FOR EXHAUST STACK THROUGH ROOF DETAIL.
 3. REFERENCE 5M/V401 FOR DUCT ROOF PENETRATION DETAIL.
 4. FAN SHALL BE MOUNTED ON AN EQUIPMENT SUPPORT RAIL WITH RESTRAINED SPRING ISOLATORS WITH 0.75" DEFLECTION. REFERENCE 6M/V401 FOR HIGH PLUME EXHAUST FAN ROOF SUPPORT DETAIL.



1 ROOF PLAN - VENTILATION
1/8" = 1'-0"



2 HIGH PLUME EXHAUST FAN SECTION LOOKING SOUTH
NO SCALE

Revisions:	Date:

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ANDERSON

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DELLAN J. LLEWELLYN
27052
2/14/2025
IOWA

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
ROOF PLAN - VENTILATION

Approved:

Phase
BID DOCUMENTS

FULLY SPRINKLERED

Project Title
CONSTRUCT NEW SPS

Location
Sioux Falls, SD.

Issue Date
02/14/2025

Checked
DAVING

Drawn
DELLE

Project Number
438-460

Building Number
5

Drawing Number
MV121

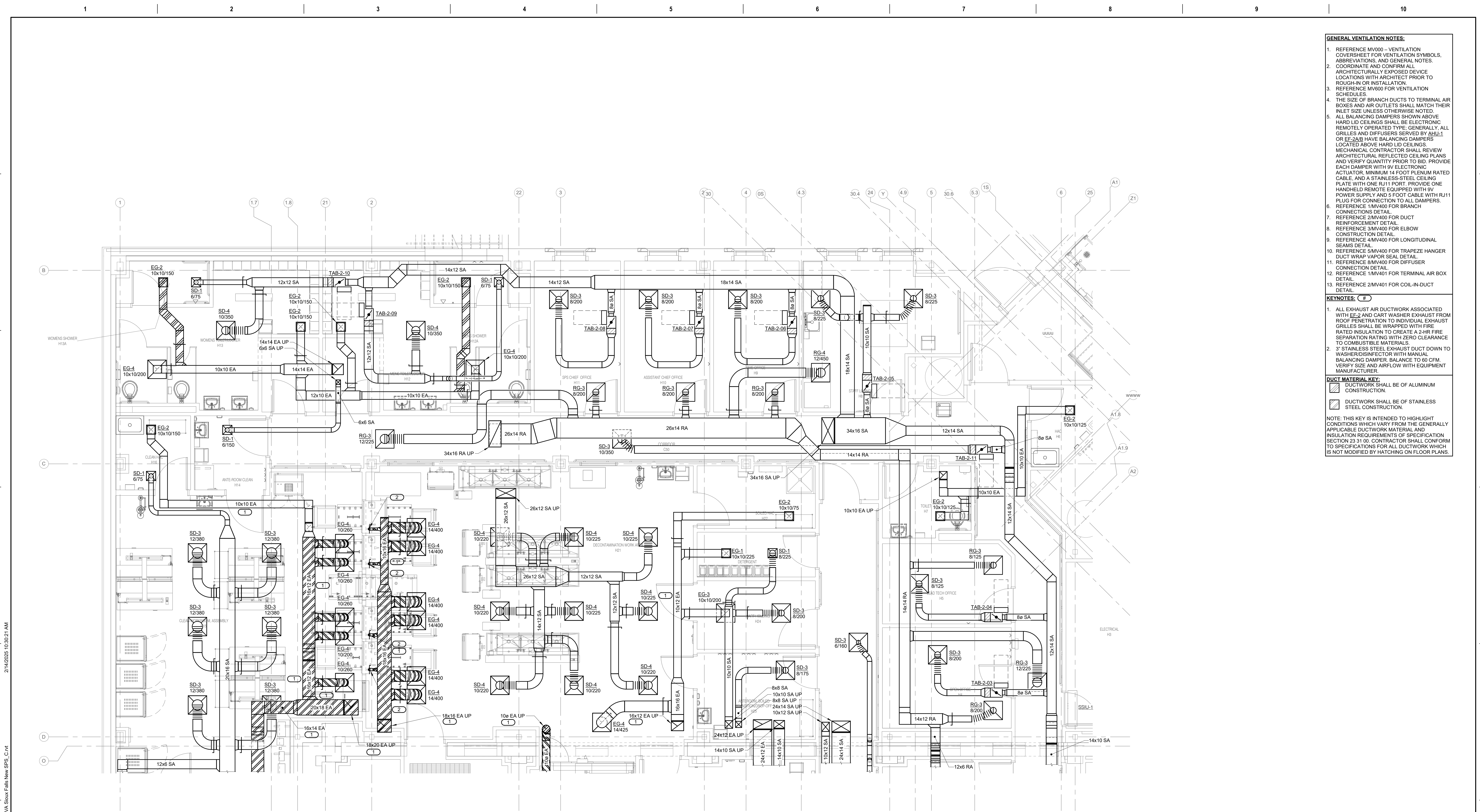
GENERAL VENTILATION NOTES:

1. REFERENCE MV000 - VENTILATION COVERSHEET FOR VENTILATION SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES.
2. COORDINATE AND CONFIRM ALL ARCHITECTURALLY EXPOSED DEVICE LOCATIONS WITH ARCHITECT PRIOR TO ROUGH-IN OR INSTALLATION.
3. REFERENCE MV600 FOR VENTILATION SCHEDULES.
4. THE SIZE OF BRANCH DUCTS TO TERMINAL AIR BOXES AND AIR OUTLETS SHALL MATCH THEIR INLET SIZE UNLESS OTHERWISE NOTED.
5. ALL BALANCING DAMPERS SHOWN ABOVE HARD LID CEILING SHALL BE ELECTRONIC REMOTELY OPERATED TYPE. GENERALLY ALL GRILLES AND DIFFUSERS SERVED BY AHU-1 OR EE-2A/B HAVE BALANCING DAMPERS LOCATED ABOVE HARD LID CEILING. MECHANICAL CONTRACTOR SHALL REVIEW ARCHITECTURAL REFLECTED CEILING PLANS AND VERIFY QUANTITY PRIOR TO BID. PROVIDE EACH DAMPER WITH 9V ELECTRONIC ACTUATOR, MINIMUM 14 FOOT PLENUM RATED CABLE AND A STAINLESS-STEEL CEILING PLATE WITH ONE RJ11 PORT. PROVIDE ONE HANDHELD REMOTE EQUIPPED WITH 9V POWER SUPPLY AND 5 FOOT CABLE WITH RJ11 PLUG FOR CONNECTION TO ALL DAMPERS.
6. REFERENCE 1/MV400 FOR BRANCH CONNECTIONS DETAIL.
7. REFERENCE 2/MV400 FOR DUCT REINFORCEMENT DETAIL.
8. REFERENCE 3/MV400 FOR ELBOW CONSTRUCTION DETAIL.
9. REFERENCE 4/MV400 FOR LONGITUDINAL SEAMS DETAIL.
10. REFERENCE 5/MV400 FOR TRAPEZE HANGER DUCT WRAP VAPOR SEAL DETAIL.
11. REFERENCE 6/MV400 FOR DIFFUSER CONNECTION DETAIL.
12. REFERENCE 1/MV401 FOR TERMINAL AIR BOX DETAIL.
13. REFERENCE 2/MV401 FOR COIL-IN-DUCT DETAIL.

- KEYNOTES: (#)**
1. ALL EXHAUST AIR DUCTWORK ASSOCIATED WITH EE2 AND CART WASHER EXHAUST FROM ROOF PENETRATION TO INDIVIDUAL EXHAUST GRILLES SHALL BE WRAPPED WITH FIRE RATED INSULATION TO CREATE A 2-HR FIRE SEPARATION RATING WITH ZERO CLEARANCE TO COMBUSTIBLE MATERIALS.
 2. 3" STAINLESS STEEL EXHAUST DUCT DOWN TO WASHER/DISINFECTOR WITH MANUAL BALANCING DAMPER. BALANCE TO 80 CFM. VERIFY SIZE AND AIRFLOW WITH EQUIPMENT MANUFACTURER.

- DUCT MATERIAL KEY:**
- DUCTWORK SHALL BE OF ALUMINUM CONSTRUCTION.
 - DUCTWORK SHALL BE OF STAINLESS STEEL CONSTRUCTION.

NOTE: THIS KEY IS INTENDED TO HIGHLIGHT CONDITIONS WHICH VARY FROM THE GENERALLY APPLICABLE DUCTWORK MATERIAL AND INSULATION REQUIREMENTS OF SPECIFICATION SECTION 23 31 00. CONTRACTOR SHALL CONFORM TO SPECIFICATIONS FOR ALL DUCTWORK WHICH IS NOT MODIFIED BY HATCHING ON FLOOR PLANS.



1 ENLARGED GROUND LEVEL FLOOR PLAN - VENTILATION - NORTH
1/4" = 1'-0"

Revisions:	Date:

CONSULTANT

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PROJECT # 19004249.04

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REFERENCE SCALE IN INCHES
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STAMP

Professional Engineer
DELLAN J. LEWELLYN
27052
IOWA

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
VENTILATION ENLARGED PLANS

Approved:

Phase
BID DOCUMENTS

FULLY SPRINKLERED

Project Title
CONSTRUCT NEW SPS

Location
Sioux Falls, SD.

Issue Date
02/14/2025

Checked
DAVING

Drawn
DELLE

Project Number
438-460



Building Number
5

Drawing Number
MV300

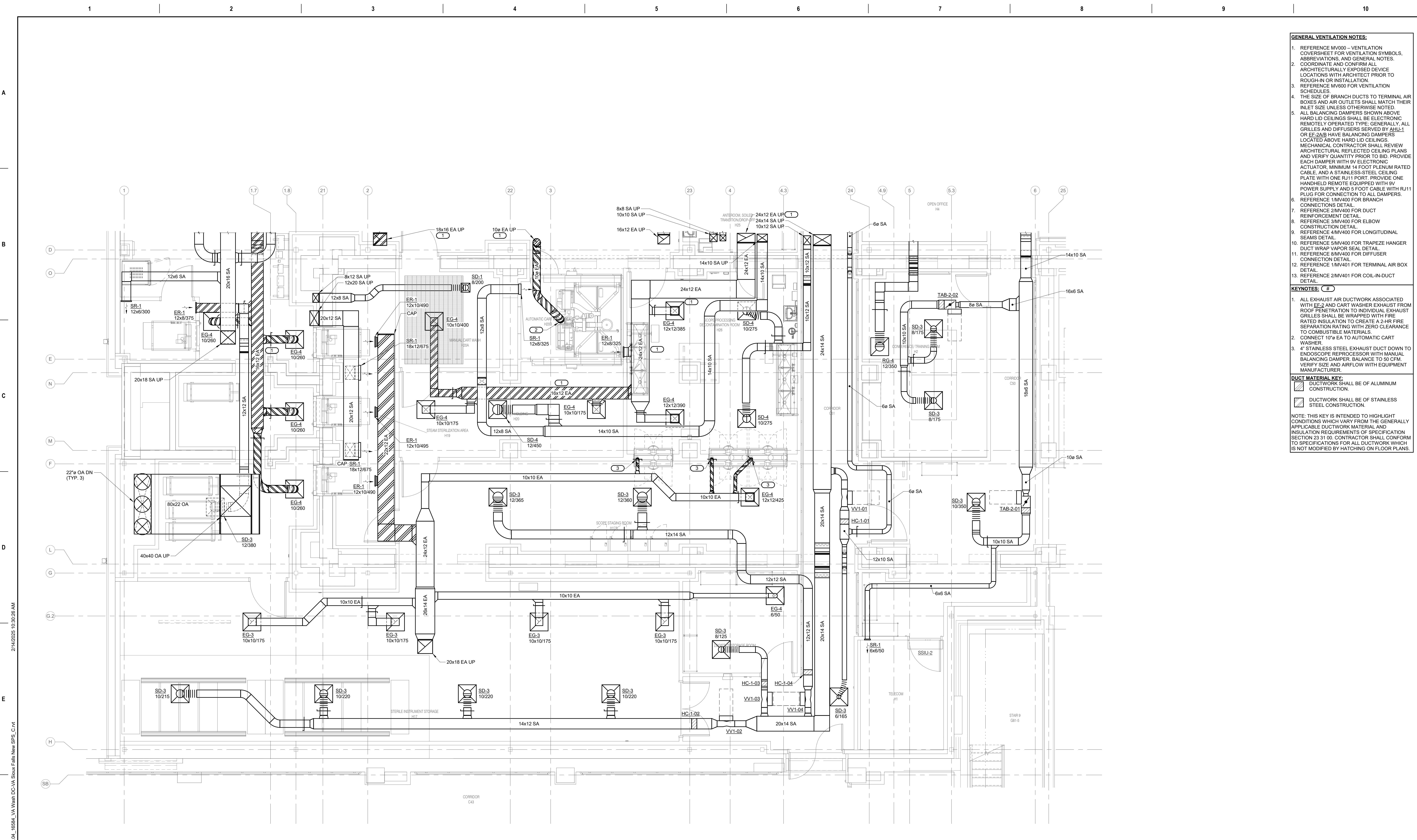
GENERAL VENTILATION NOTES:

1. REFERENCE MV000 - VENTILATION COVERSHEET FOR VENTILATION SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES.
2. COORDINATE AND CONFIRM ALL ARCHITECTURALLY EXPOSED DEVICE LOCATIONS WITH ARCHITECT PRIOR TO ROUGH-IN OR INSTALLATION.
3. REFERENCE MV600 FOR VENTILATION SCHEDULES.
4. THE SIZE OF BRANCH DUCTS TO TERMINAL AIR BOXES AND AIR OUTLETS SHALL MATCH THEIR INLET SIZE UNLESS OTHERWISE NOTED.
5. ALL BALANCING DAMPERS SHOWN ABOVE HARD LID CEILING SHALL BE ELECTRONIC REMOTELY OPERATED TYPE. GENERALLY ALL GRILLES AND DIFFUSERS SERVED BY AHU-1 OR EE-2/3 HAVE BALANCING DAMPERS LOCATED ABOVE HARD LID CEILING. MECHANICAL CONTRACTOR SHALL REVIEW ARCHITECTURAL REFLECTED CEILING PLANS AND VERIFY QUANTITY PRIOR TO BID. PROVIDE EACH DAMPER WITH 9V ELECTRONIC ACTUATOR, MINIMUM 14 FOOT PLENUM RATED CABLE AND A STAINLESS-STEEL CEILING PLATE WITH ONE RJ11 PORT. PROVIDE ONE HANDHELD REMOTE EQUIPPED WITH 9V POWER SUPPLY AND 5 FOOT CABLE WITH RJ11 PLUG FOR CONNECTION TO ALL DAMPERS.
6. REFERENCE 1/MV400 FOR BRANCH CONNECTIONS DETAIL.
7. REFERENCE 2/MV400 FOR DUCT REINFORCEMENT DETAIL.
8. REFERENCE 3/MV400 FOR ELBOW CONSTRUCTION DETAIL.
9. REFERENCE 4/MV400 FOR LONGITUDINAL SEAMS DETAIL.
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- KEYNOTES: (#)**
1. ALL EXHAUST AIR DUCTWORK ASSOCIATED WITH EE-2 AND CART WASHER EXHAUST FROM ROOF PENETRATION TO INDIVIDUAL EXHAUST GRILLES SHALL BE WRAPPED WITH FIRE RATED INSULATION TO CREATE A 2-HR FIRE SEPARATION RATING WITH ZERO CLEARANCE TO COMBUSTIBLE MATERIALS.
 2. CONNECT 10" EA TO AUTOMATIC CART WASHER.
 3. 4" STAINLESS STEEL EXHAUST DUCT DOWN TO ENDOSCOPE REPROCESSOR WITH MANUAL BALANCING DAMPER, BALANCE TO 50 CFM. VERIFY SIZE AND AIRFLOW WITH EQUIPMENT MANUFACTURER.

DUCT MATERIAL KEY:
 DUCTWORK SHALL BE OF ALUMINUM CONSTRUCTION.
 DUCTWORK SHALL BE OF STAINLESS STEEL CONSTRUCTION.

NOTE: THIS KEY IS INTENDED TO HIGHLIGHT CONDITIONS WHICH VARY FROM THE GENERALLY APPLICABLE DUCTWORK MATERIAL AND INSULATION REQUIREMENTS OF SPECIFICATION SECTION 23 31 00. CONTRACTOR SHALL CONFORM TO SPECIFICATIONS FOR ALL DUCTWORK WHICH IS NOT MODIFIED BY HATCHING ON FLOOR PLANS.



1 ENLARGED GROUND LEVEL FLOOR PLAN - VENTILATION - SOUTH
 1/4" = 1'-0"

Revisions:	Date:

CONSULTANT

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ARCHITECT/ENGINEER OF RECORD

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
 VENTILATION ENLARGED PLANS

Approved:

Phase
 BID DOCUMENTS

FULLY SPRINKLERED

Project Title
 CONSTRUCT NEW SPS

Location
 Sioux Falls, SD.

Issue Date
 02/14/2025

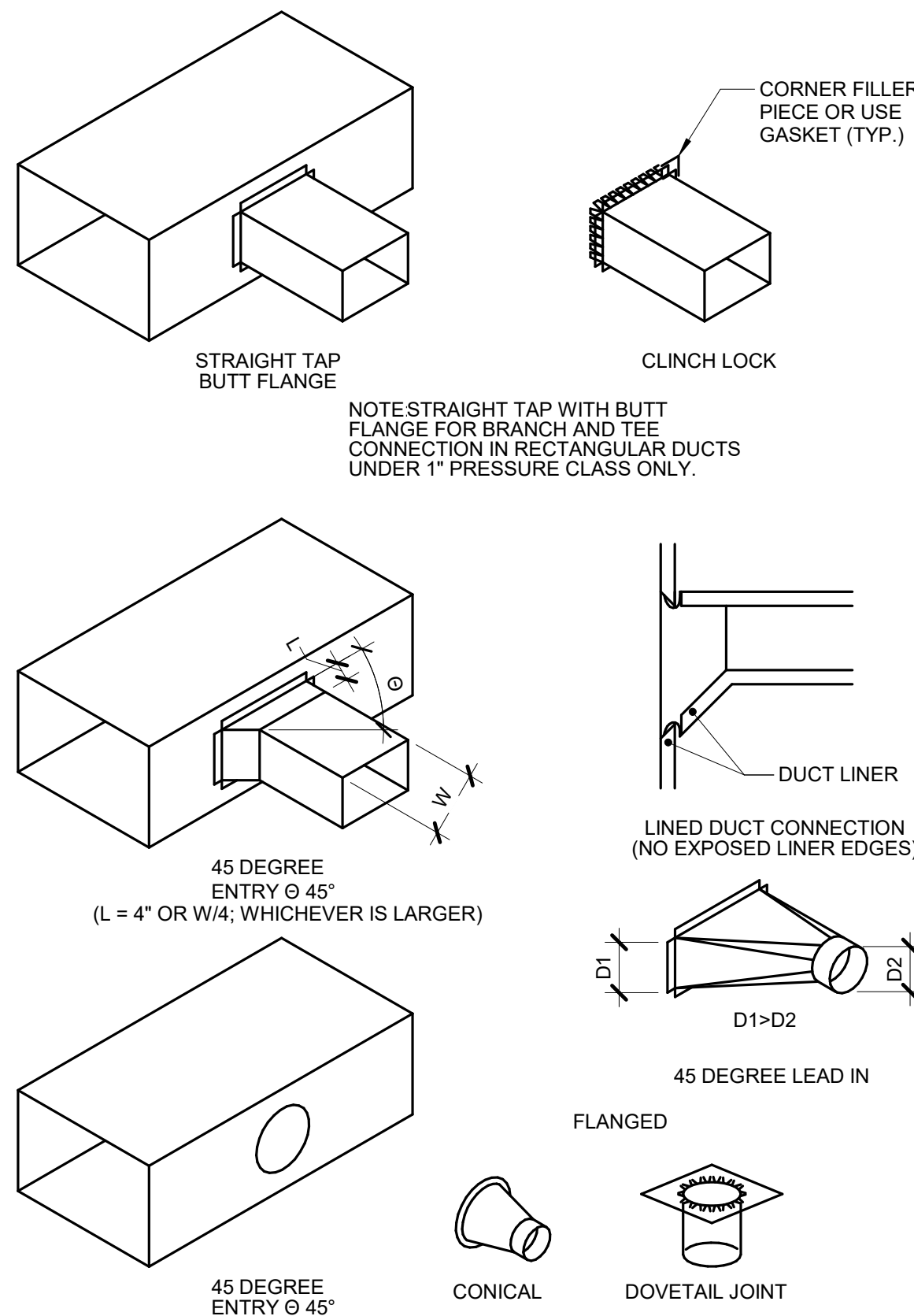
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Drawn
 DELLE

Project Number
 438-460

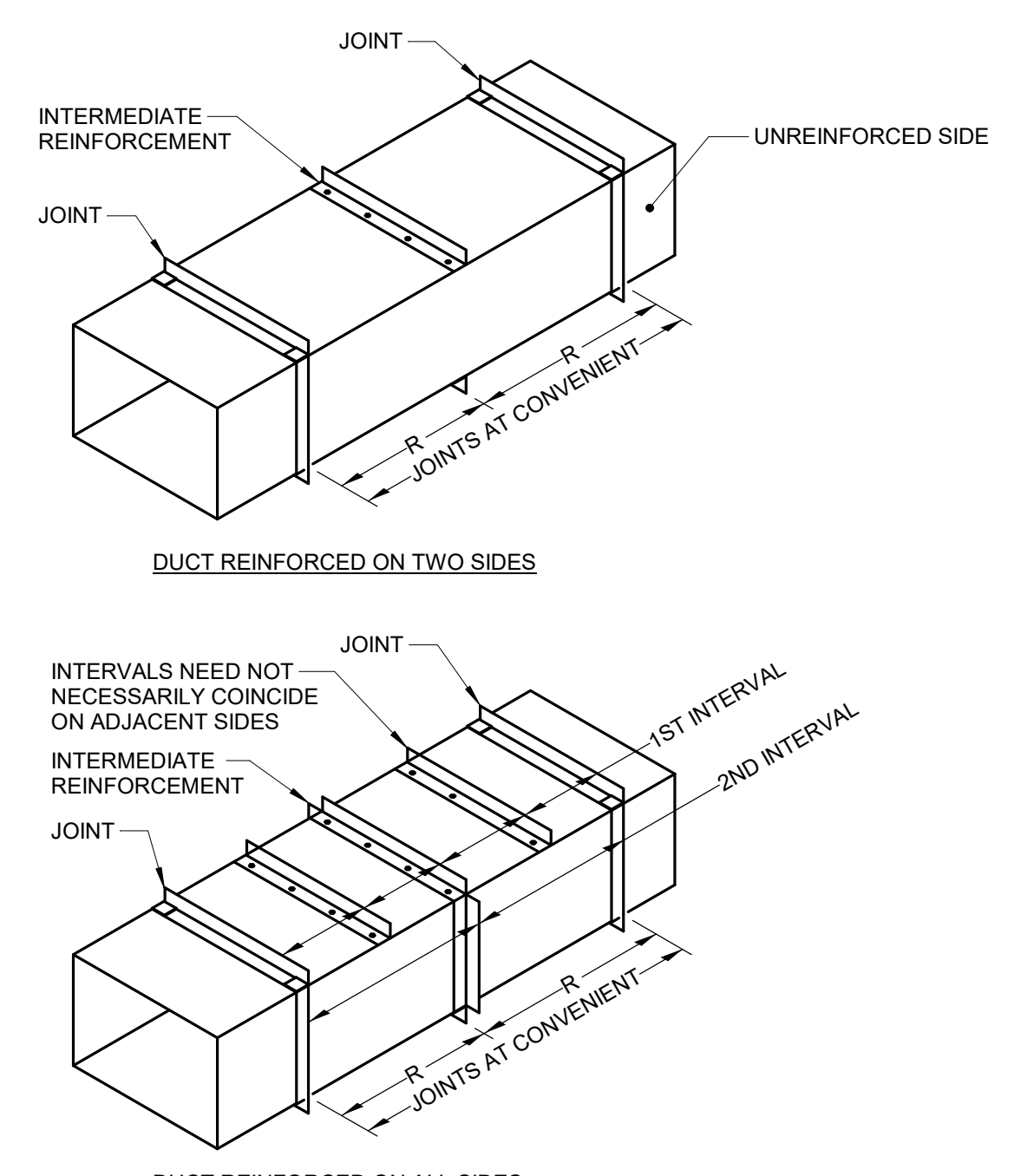
Building Number
 5

Drawing Number
 MV301



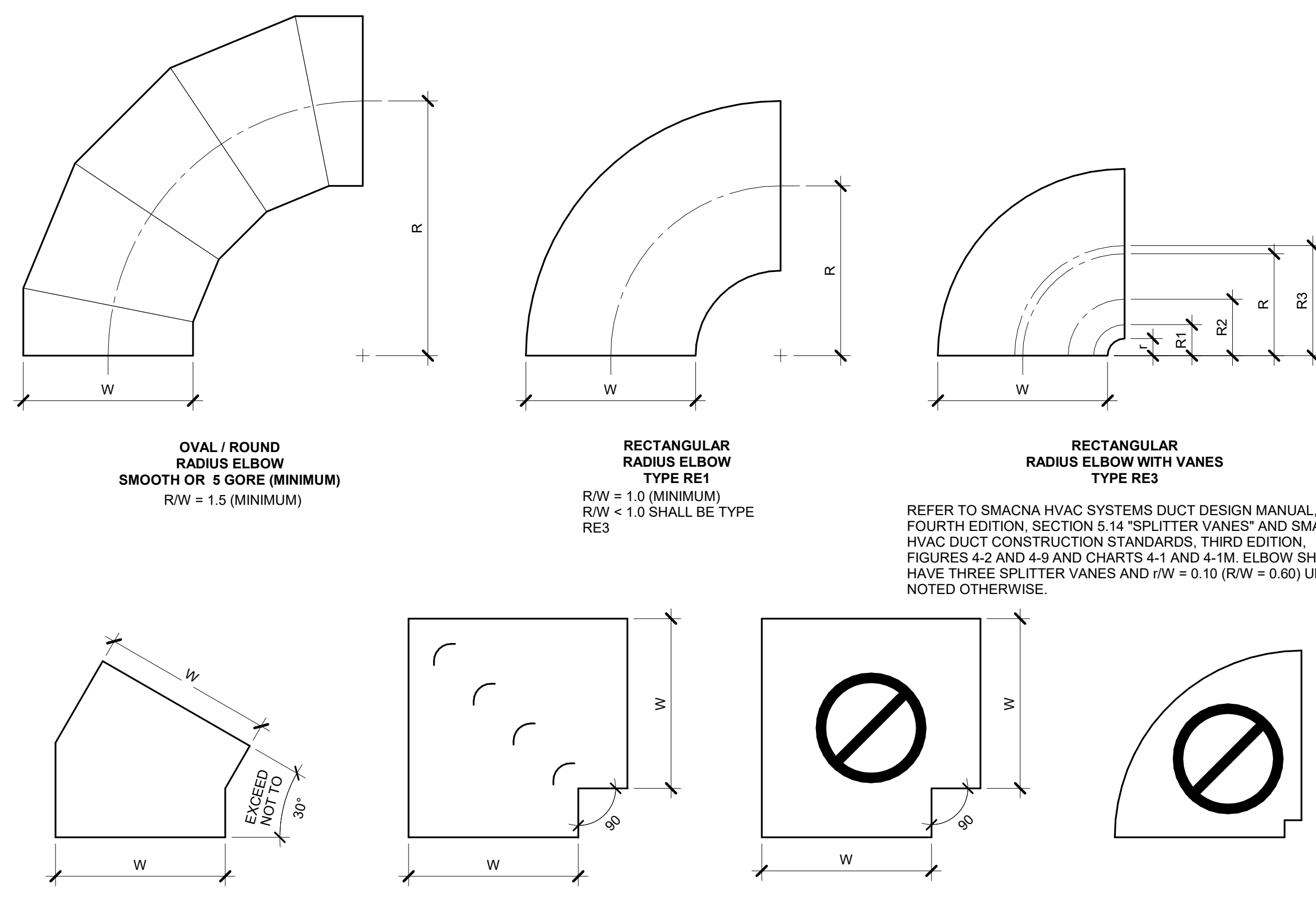
1 BRANCH CONNECTIONS

- NO SCALE
NOTES:
1. DO NOT USE CONNECTIONS WITH SCOOPS.
2. FIT ALL CONNECTIONS TO AVOID VISIBLE OPENINGS AND SECURE THEM SUITABLY FOR THE PRESSURE CLASS.
3. ADDITIONAL MECHANICAL FASTENERS ARE REQUIRED FOR 4"W.G. AND OVER.
4. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.



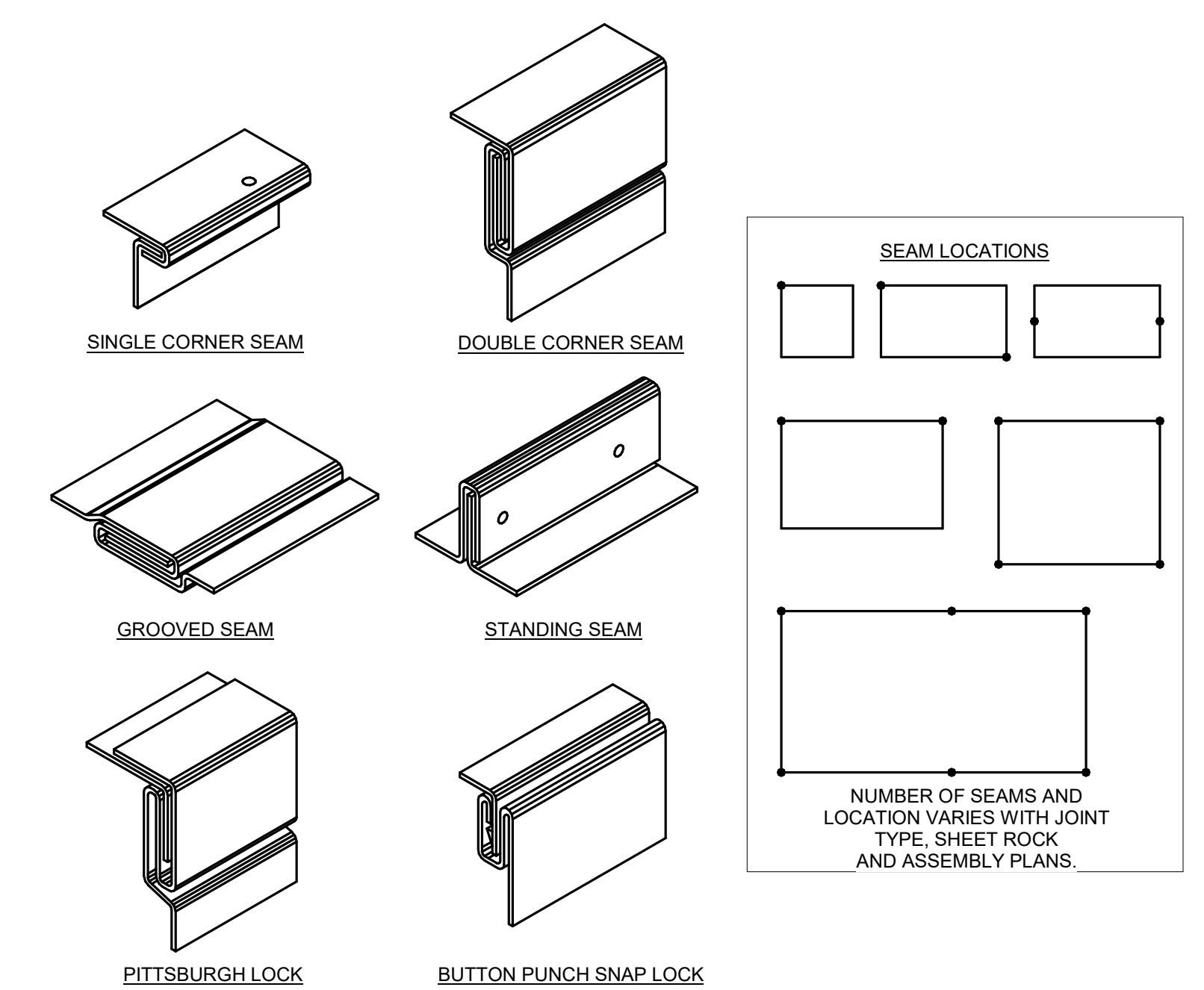
2 DUCT REINFORCEMENT DETAIL

- NO SCALE
NOTES:
1. 'R' IS AN ALLOWABLE REINFORCEMENT INTERVAL. TOP AND BOTTOM JOINTS MUST QUALIFY AS REINFORCEMENT.
2. DUCT SIZES THAT ARE 19 INCHES (483 mm) AND OVER ARE 20 GAGE (1.00 mm) OR LESS, WITH MORE THAN 10 SQUARE FEET (0.93 SQUARE METERS) OF UNBRACED PANEL AREA, SHALL BE CROSSBROKEN OR BEADED UNLESS THEY ARE LINED OR EXTERNALLY INSULATED. DUCTS THAT ARE OF HEAVIER GAGE, SMALLER DIMENSIONS, AND SMALLER PANEL AREA AND THOSE THAT ARE LINED OR EXTERNALLY INSULATED ARE NOT REQUIRED TO HAVE CROSSBREAKING OR BEADING.
4. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.



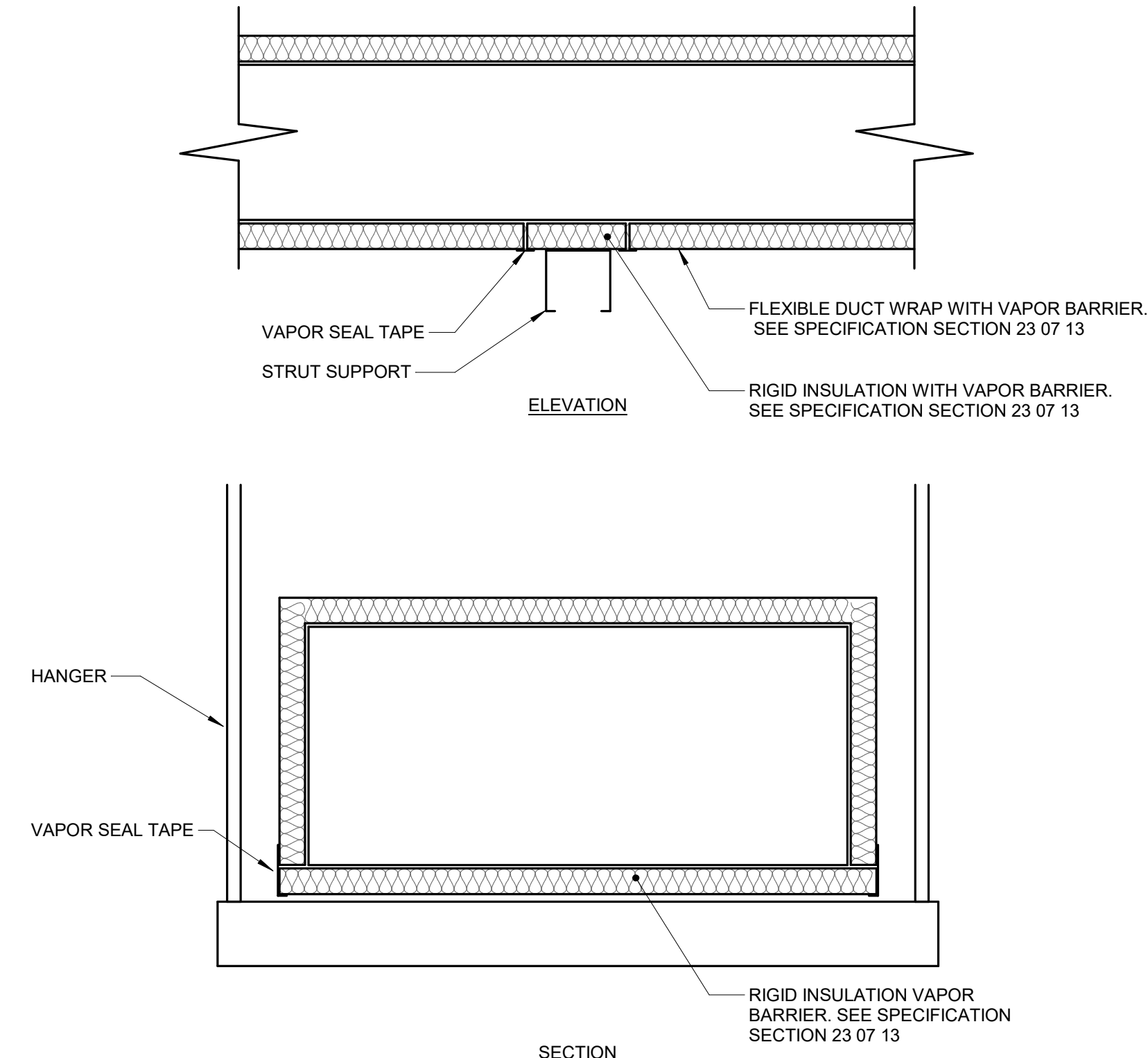
3 ELBOW CONSTRUCTION

- NO SCALE
NOTES:
1. BEAD, CROSSBREAK, AND REINFORCE FLAT SURFACES AS IN STRAIGHT DUCT.
2. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
3. DEFAULT ELBOW SHALL BE TYPE 'RE1'.
4. ELBOW TYPES SHALL BE INSTALLED AS SHOWN AND NOT BE SUBSTITUTED WITHOUT PERMISSION. EXCEPTION: RE1 OR RE3 MAY BE SUBSTITUTED FOR RE2.



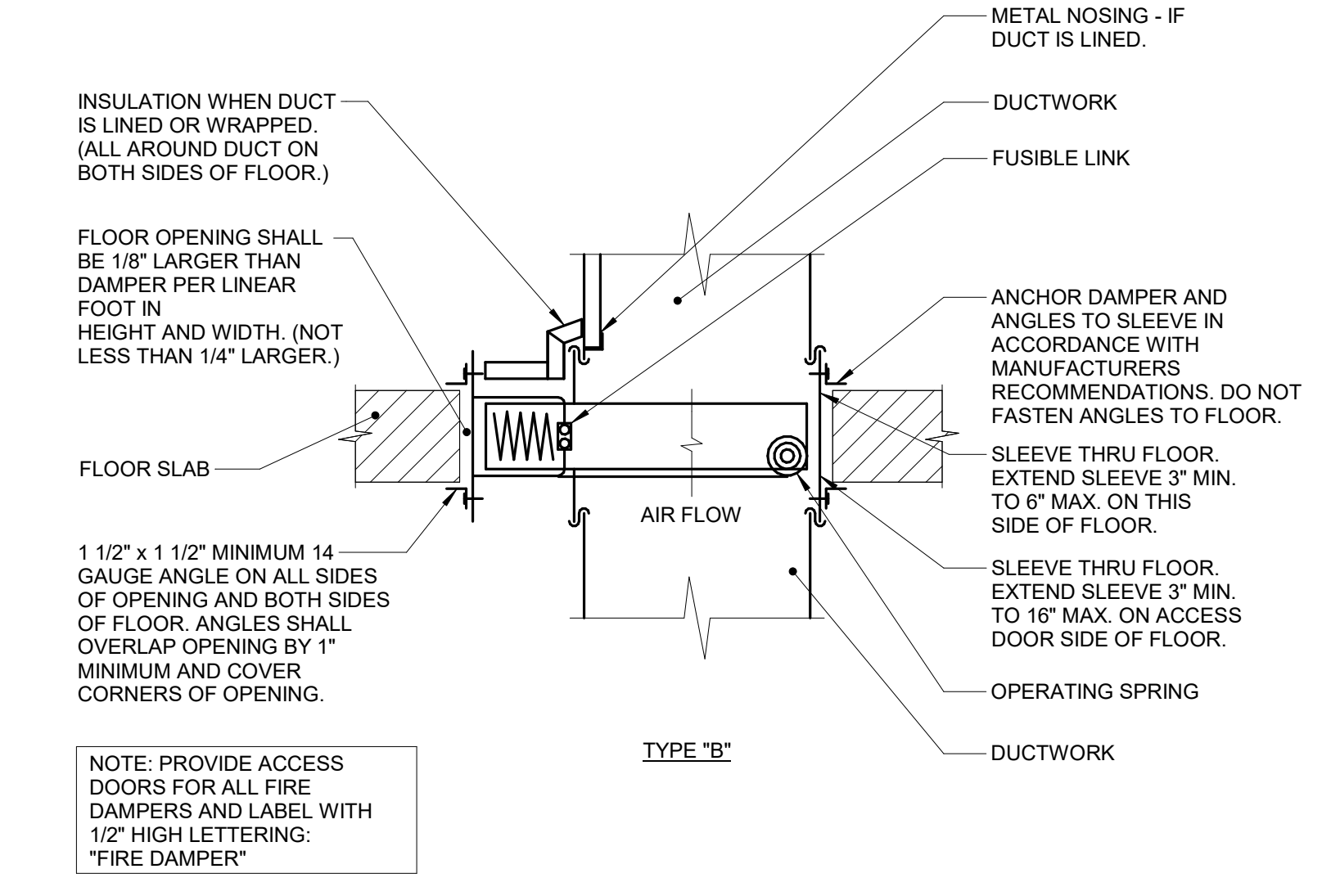
4 LONGITUDINAL SEAMS - RECTANGULAR DUCT

- NO SCALE
NOTES:
1. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.



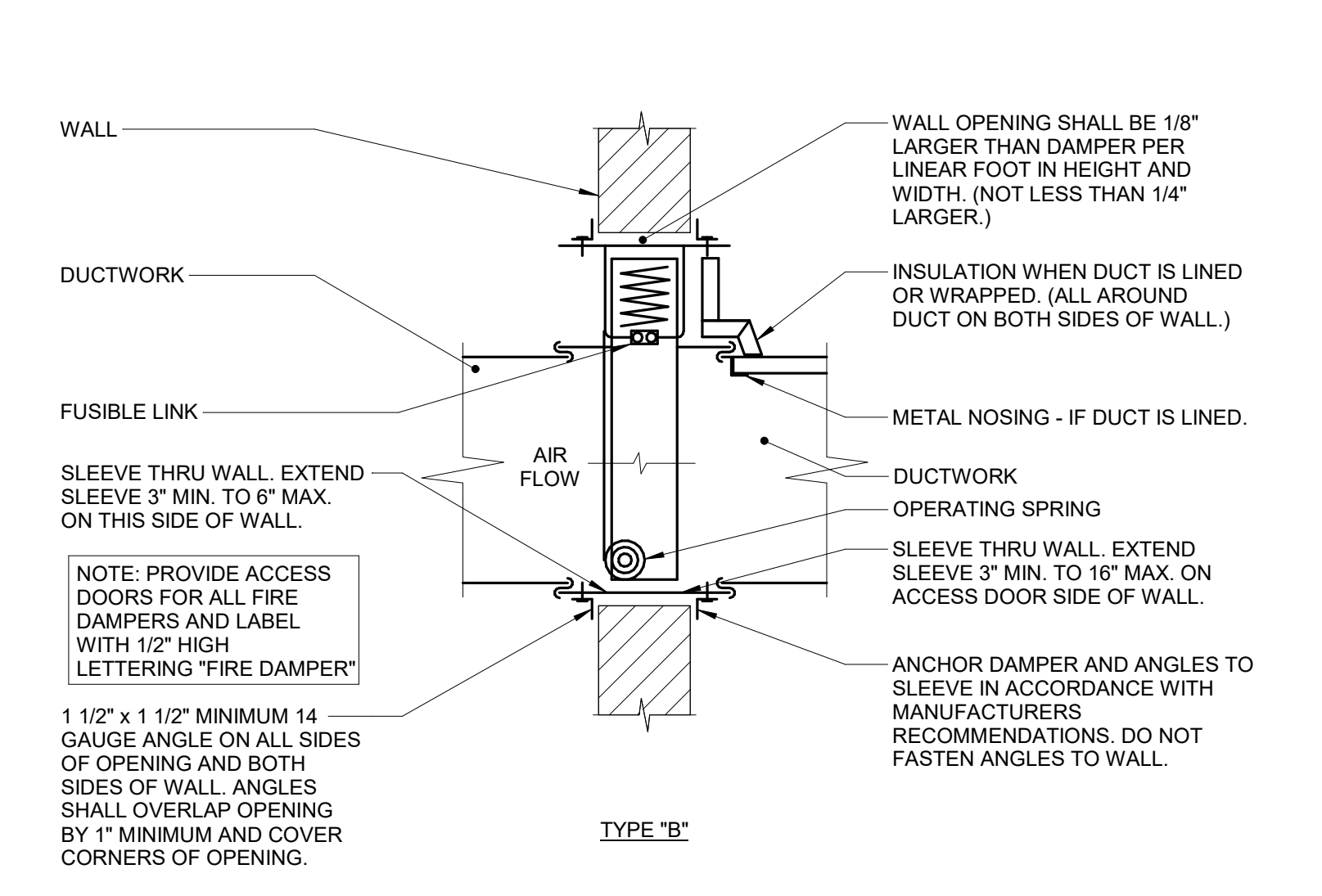
5 TRAPEZE HANGER DUCT WRAP VAPOR SEAL

- NO SCALE



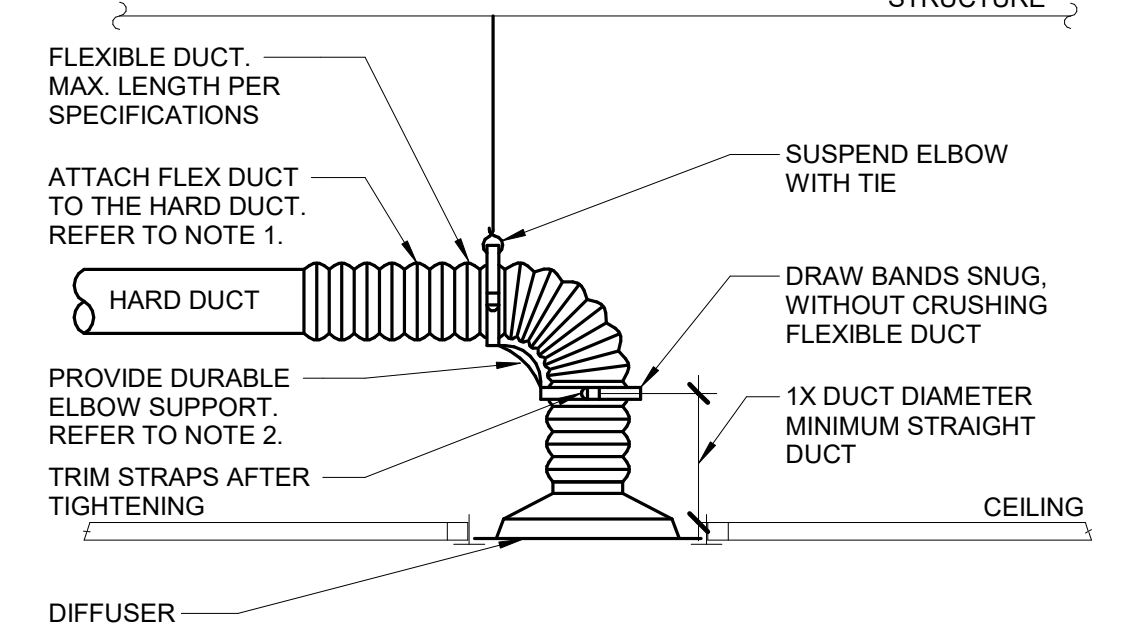
6 FIRE DAMPER THRU FLOOR DETAIL (TYPE B)

- NO SCALE



7 FIRE DAMPER THRU WALL DETAIL (TYPE B)

- NO SCALE

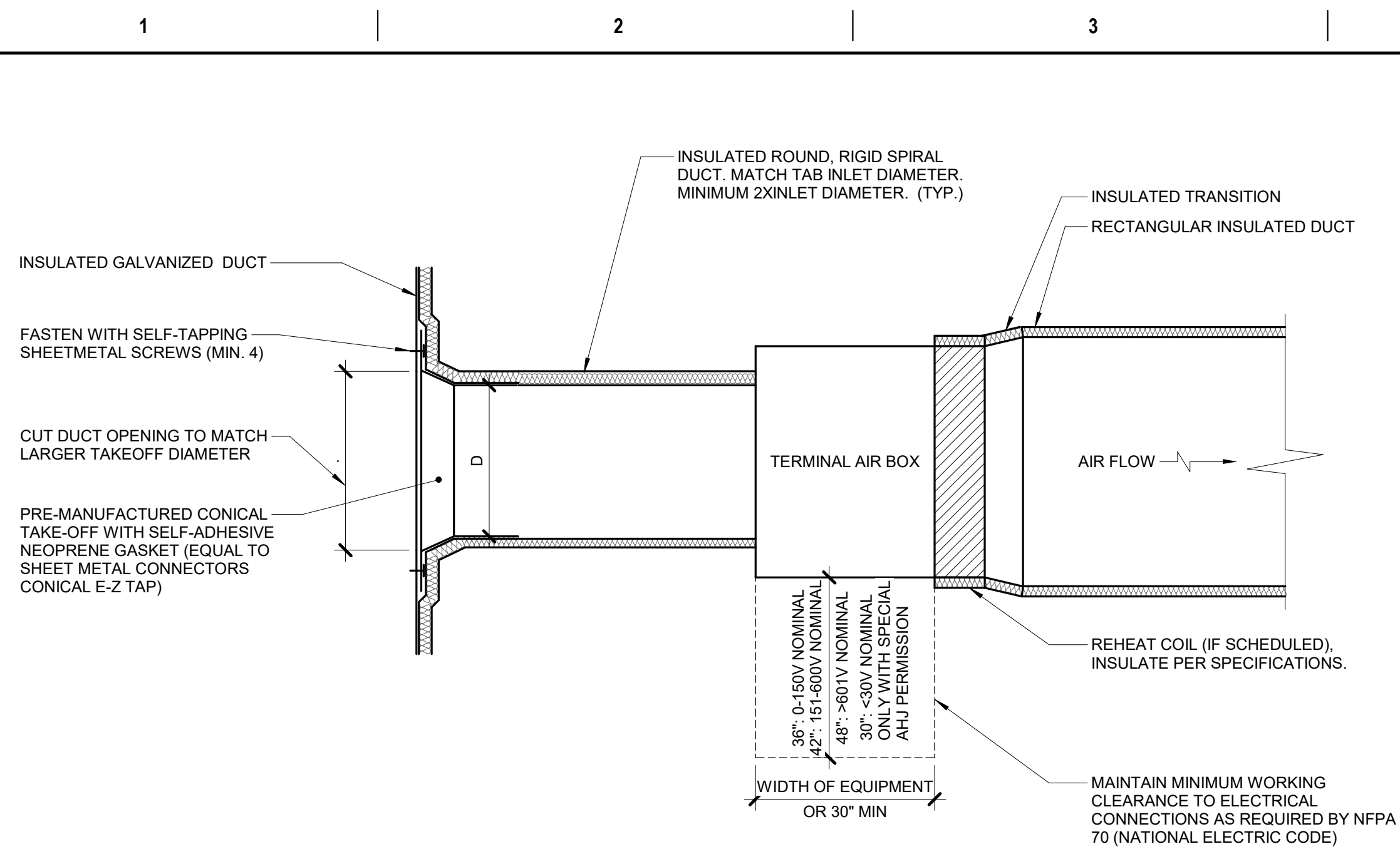


8 DIFFUSER CONNECTION DETAIL

- NO SCALE
NOTES:
1. DETAIL GENERALLY APPLIES TO SUPPLY AIR DIFFUSERS. CONNECTIONS TO CEILING MOUNTED EXHAUST AIR GRILLES SHALL BE MADE WITH CONTINUOUS HARD DUCT.
2. TO ATTACH FLEX DUCT TO THE HARD DUCT, TAPE THE INNER LINER TO THE HARD DUCT THEN ATTACH WITH TWO NYLON TIE WRAPS, ONE FOR THE INNER LINER AND ONE FOR THE OUTER SHELL. FOLD THE OUTER SHELL INSIDE ITSELF SO IT HAS NEAT EDGES PRIOR TO TIE WRAPPING.
3. DURABLE ELBOW SUPPORT ACCEPTABLE MANUFACTURER AND MODEL: HART AND COOLEY - SMARTFLOW, THERMIFLEX - FLEXFLOW, TITUS - FLEXRIGHT, OR APPROVED EQUAL.

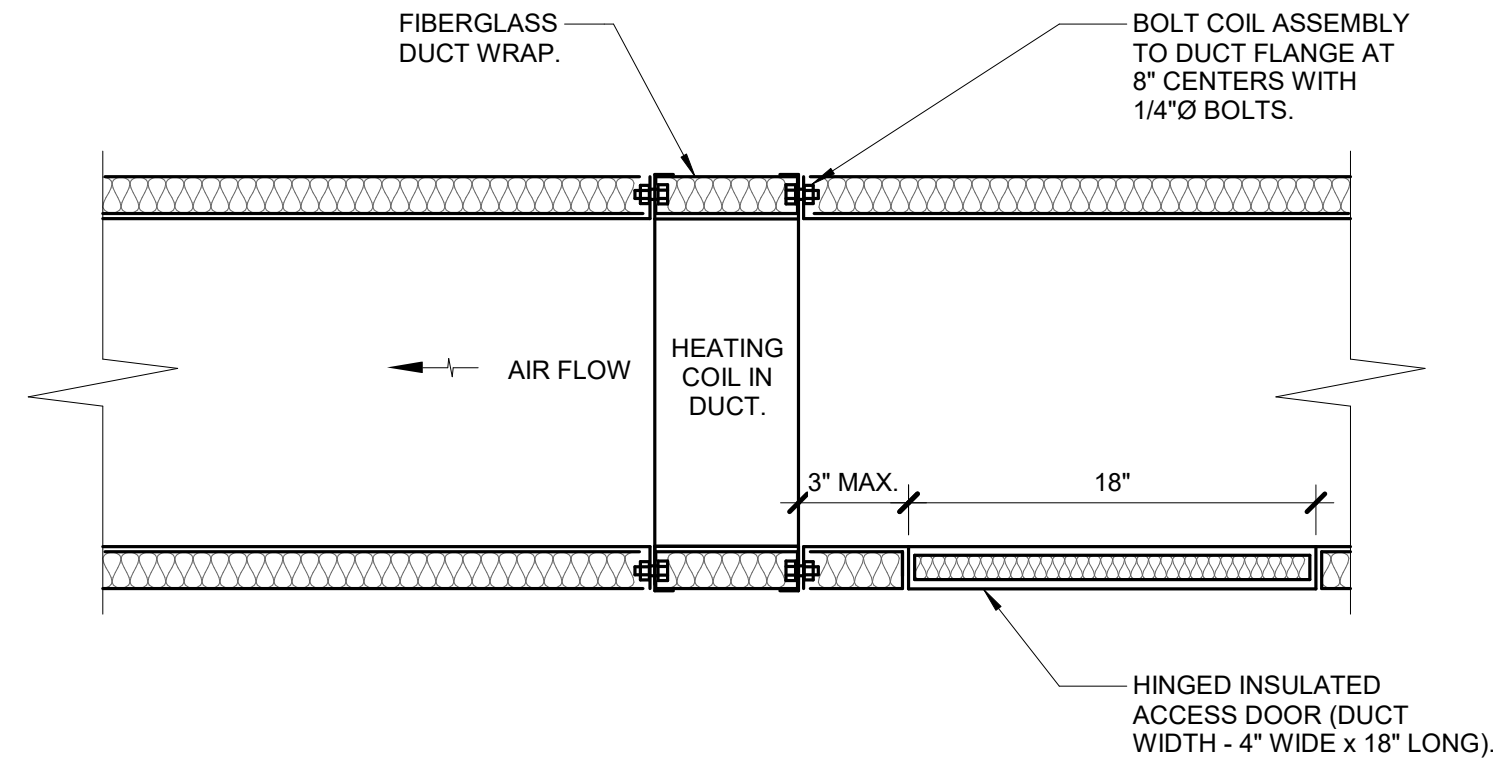
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Revisions table, Consultant (IMEG), Architect/Engineer of Record (ANDERSON), Office of Construction and Facilities Management, U.S. Department of Veterans Affairs, Drawing Title (VENTILATION DETAILS), Phase (BID DOCUMENTS), Project Title (CONSTRUCT NEW SPS), Project Number (438-460), Building Number (5), Drawing Number (MV400), Issue Date (02/14/2025), Checked (DAVING), Drawn (DELLE).



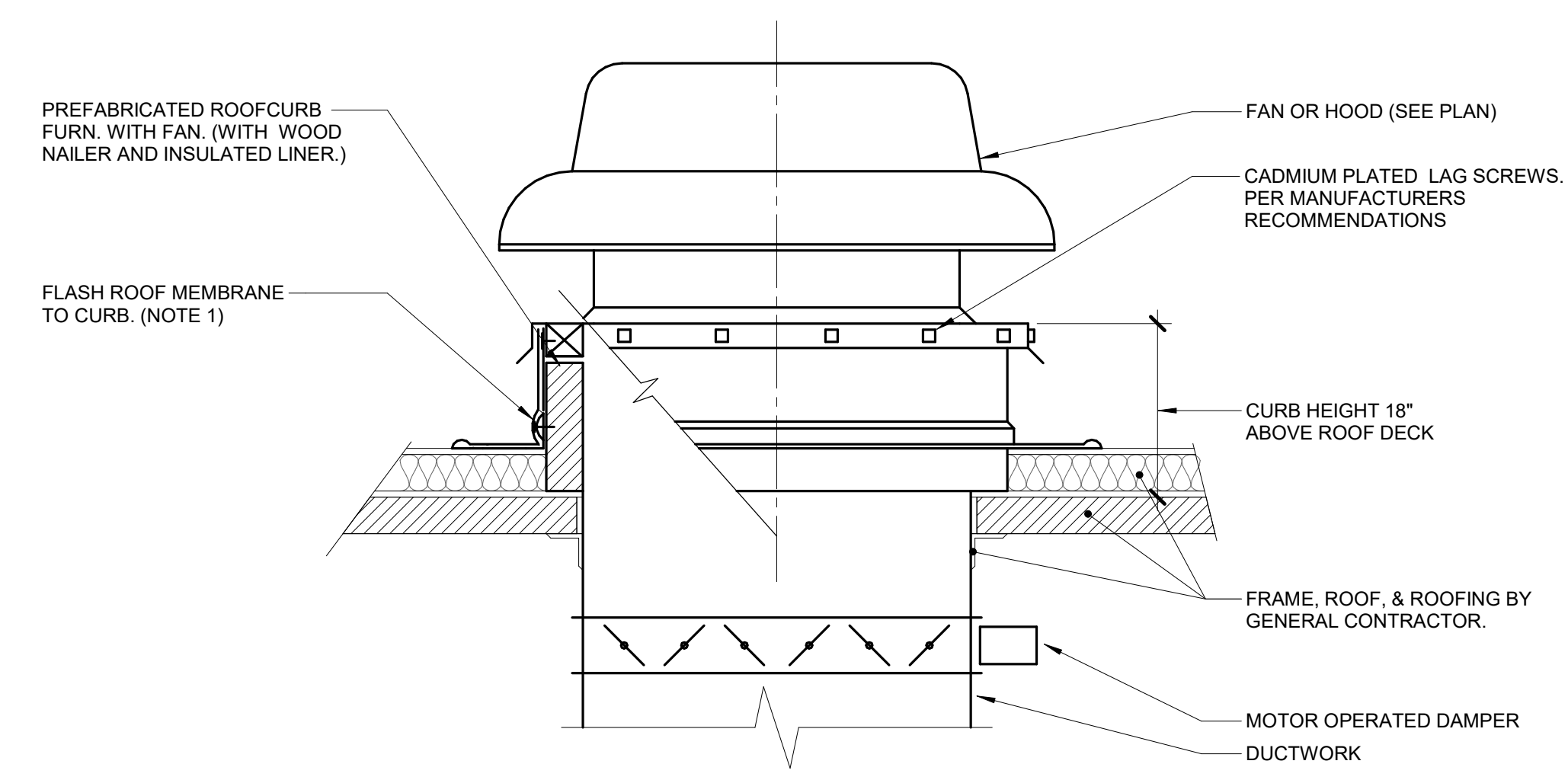
1 TERMINAL AIR BOX - SINGLE DUCT

- NO SCALE
NOTES:
1. THIS DETAIL APPLIES ONLY TO TAPS OFF WRAPPED DUCTS.
 2. THIS DETAIL APPLIES TO TERMINAL AIR BOXES WITH ROUND INLETS AND RECTANGULAR OUTLETS.
 3. DUCT LEADING TO TAB INLET MUST BE STRAIGHT FOR 1.5 DIAMETER UPSTREAM.
 4. MAINTAIN VAPOR BARRIER FROM MAIN TO BRANCH DUCT.



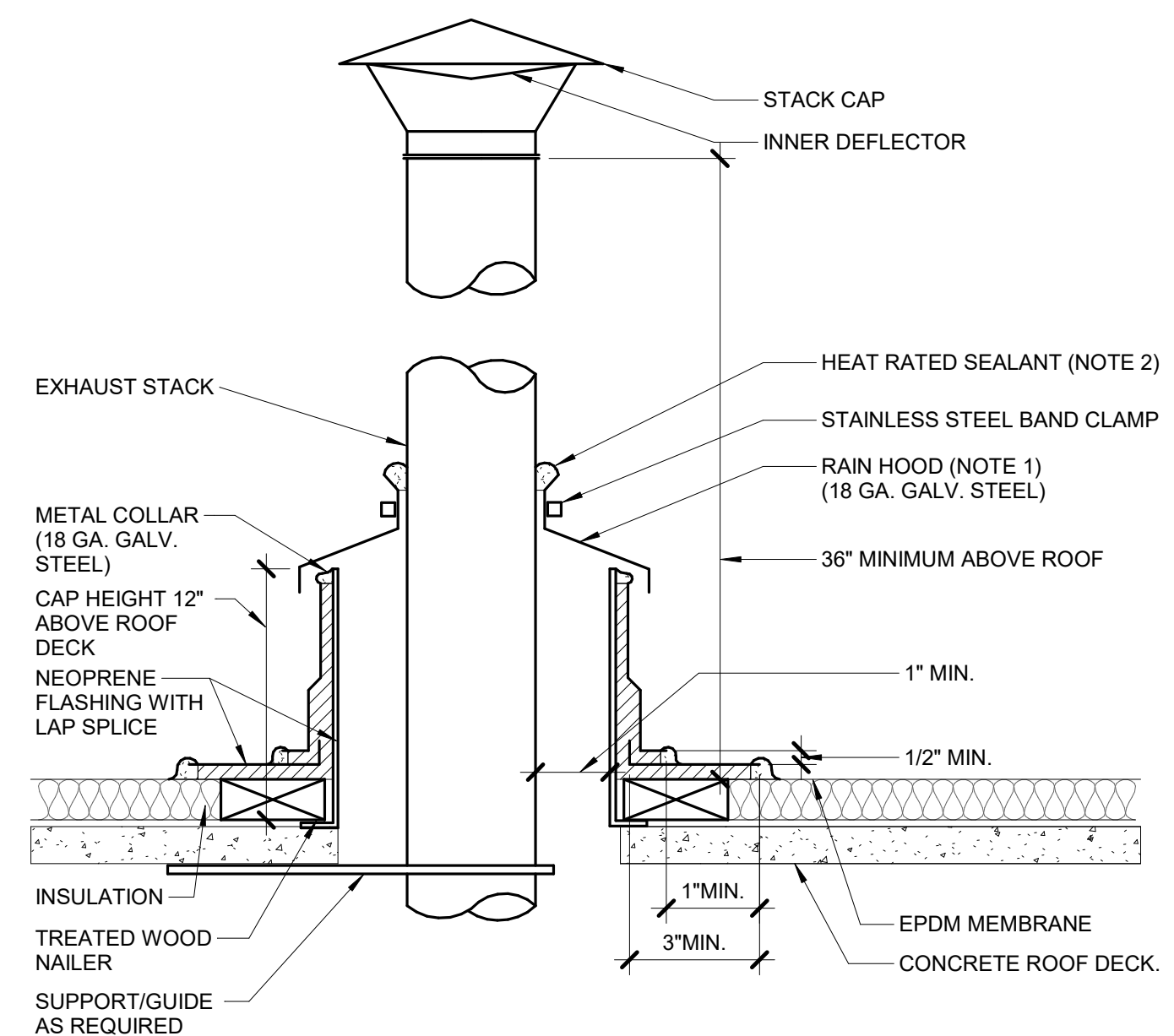
2 COIL - IN DUCT HEATING - WRAPPED

- NO SCALE
NOTES:
1. THIS DETAIL APPLIES TO ALL HEATING COILS INSTALLED IN DUCTS. ACCESS DOORS AND FLANGED CONNECTIONS MUST BE PROVIDED AT ALL COILS UNLESS SPECIFICALLY NOTED OTHERWISE.
 2. PROVIDE FLANGED CONNECTION ON BOTH SIDES OF COILS. ACCESS DOORS ARE ONLY REQUIRED UPSTREAM OF COILS.
 3. PROVIDE 48" STRAIGHT DUCT UPSTREAM AND 24" DOWNSTREAM OF HEATING COIL.



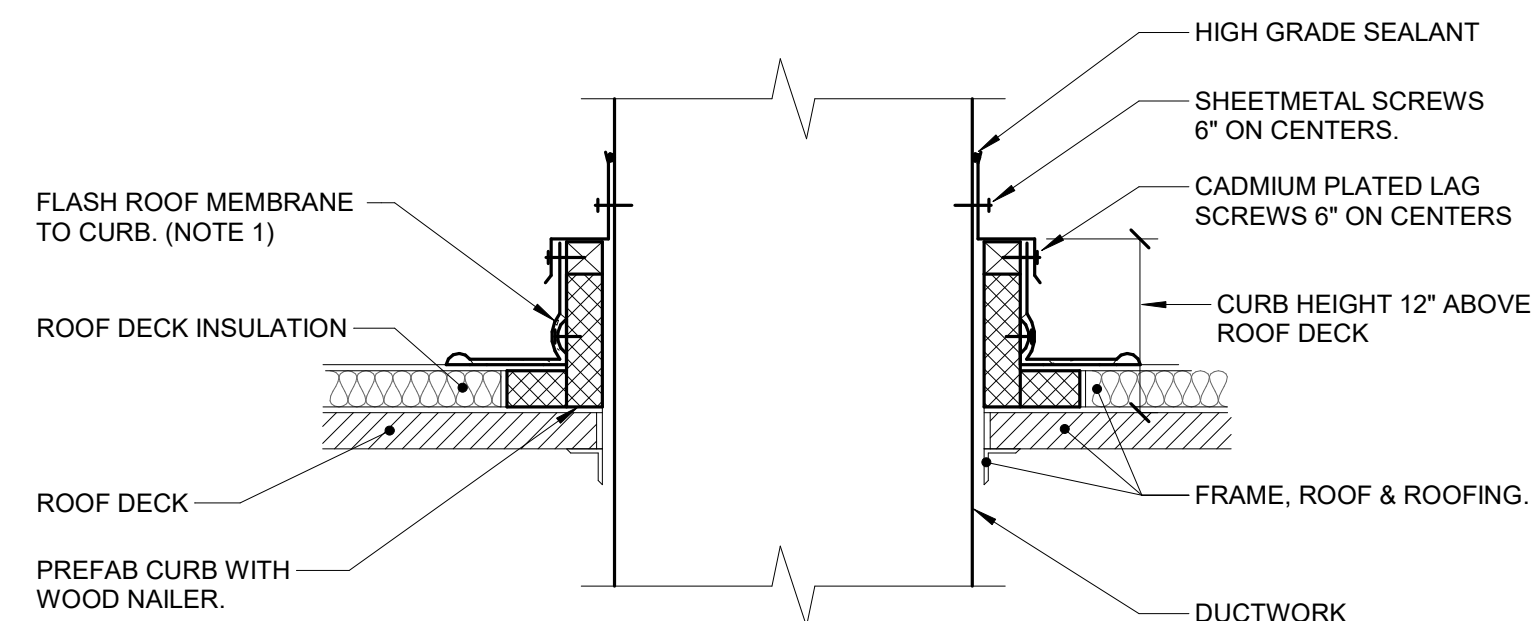
3 FAN/HOOD CURB ROOF SUPPORT DETAIL

- NO SCALE
NOTES:
1. ALL ROOF FLASHING SHALL BE PER ROOFING MANUFACTURERS RECOMMENDATIONS.



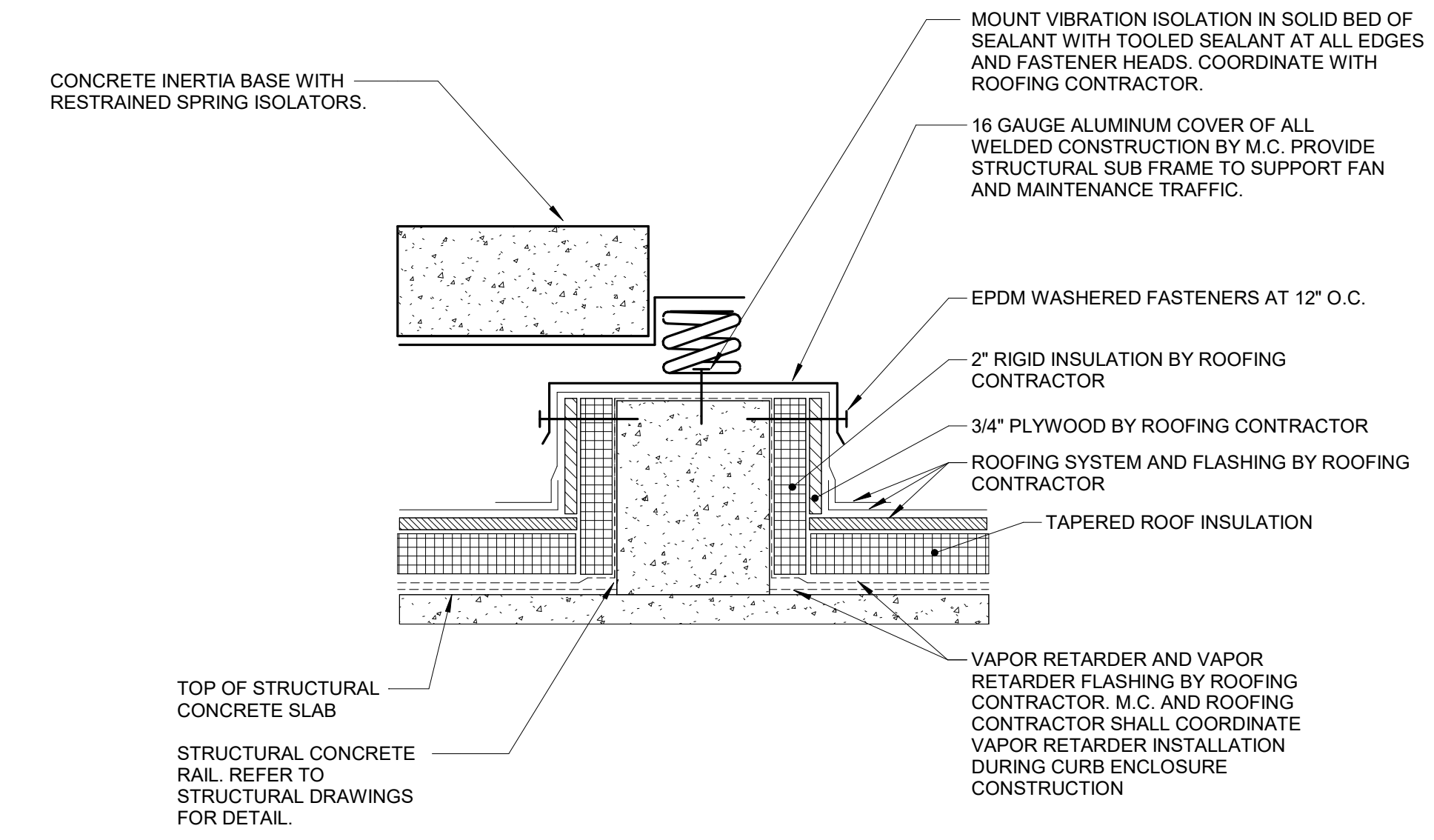
4 EXHAUST STACK THROUGH ROOF

- NO SCALE
NOTES:
1. MAINTAIN A MINIMUM 1" CLEARANCE ABOVE FLASHING COLLAR TO ALLOW FOR VENTILATION OF HEAT.
 2. SEALANT GOOD TO 250°F. ALL TEMPERATURES HIGHER SHALL BE SOLDER OR BRAZED.



5 DUCT ROOF PENETRATION

- NO SCALE
NOTES:
1. ALL ROOF FLASHING SHALL BE PER ROOF MANUFACTURER'S RECOMMENDATIONS.



6 HIGH PLUME EXHAUST FAN ROOF SUPPORT DETAIL

NO SCALE

2/14/2025 10:30:29 AM

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
VENTILATION DETAILS

Approved:

Phase
BID DOCUMENTS

FULLY SPRINKLERED

Project Title
CONSTRUCT NEW SPS

Location
Sioux Falls, SD.

Issue Date
02/14/2025

Checked
DAVING

Drawn
DELLE

Project Number
438-460

Building Number
5

Drawing Number
MV401

A

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VIEW KEY

NAME — LEVEL NAME
10'-0" — HEIGHT ABOVE PROJECT 0'-0"

INDICATES NOTE USED TO DESCRIBE ADDITIONAL INFORMATION ABOUT WORK REQUIRED, SPECIFIC TO THE SHEET AND/OR DETAIL.

INDICATES DIRECTION OF TRUE NORTH
PLAN OR DETAIL NUMBER
PLAN OR DETAIL NAME

VIEW NAME
1/8" = 1'-0"
PLAN OR DETAIL SCALE

INDICATES SIMILAR DETAIL REFERENCED IN MULTIPLE LOCATIONS
DETAIL REFERRED TO BY SECTION CUT
SHEET DETAIL IS LOCATED ON — T101

LINE TYPE AND TAG KEY

NEW WORK BY THIS CONTRACTOR (WIDE LINE)
--- EXISTING TO BE REMOVED (SHORT DASHED PATTERN)
--- NEW UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)

EXISTING TO REMAIN OR WORK BY OTHERS (NARROW LINE)
--- EXISTING
--- EXISTING TO BE REMOVED BY OTHERS (SHORT DASHED PATTERN)
--- EXISTING UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)

HALFTONING DOES NOT MODIFY SCOPE.

TAG-E TAGS WITH DASH 'E' INDICATES THE REFERENCED OBJECT IS EXISTING
TAG-1 UNDERLINED TAG INDICATES OBJECT IS IN-SCOPE. IF NEW, ADDITIONAL INFORMATION IS AVAILABLE IN A SCHEDULE, MATERIAL LIST, OR SYMBOL LIST
INDICATES AN EXISTING SYSTEM'S POINT OF CONNECTION/REMOVAL

APPLICABLE CODES

CONTRACTOR SHALL COMPLY WITH APPLICABLE CODES AND LOCAL AMENDMENTS.

BUILDING CODE:	IBC 2021 EDITION
FIRE CODE:	IFC 2021 EDITION
PLUMBING CODE:	IPC 2021 EDITION
MECHANICAL CODE:	IMC 2021 EDITION
ELECTRICAL CODE:	NFPA 70 (NEC) 2020 EDITION
LIFE SAFETY CODE:	NFPA 101 2021 EDITION
ENERGY CONSERVATION CODE:	IECC 2021
HEALTH DEPARTMENT CODE:	CURRENT EDITION
LOCAL BUILDING CODE:	CURRENT EDITION

CONTRACTOR ABBREVIATION KEY

ABBR:	DESCRIPTION:
A.C.	ASBESTOS ABATEMENT CONTRACTOR
C.C.	CIVIL CONTRACTOR
C.O.R.	CONTRACTING OFFICER'S REPRESENTATIVE
E.C.	ELECTRICAL CONTRACTOR
F.P.C.	FIRE PROTECTION CONTRACTOR
G.C.	GENERAL CONTRACTOR
M.C.	MECHANICAL CONTRACTOR
P.C.	PLUMBING CONTRACTOR
T.C.	TECHNOLOGY CONTRACTOR
T.C.C.	TEMPERATURE CONTROLS CONTRACTOR

CONTACT PERSONS:

DESCRIPTION:	PERSON:
PROJECT MANAGER	ERIC J. HENDERSON, PE
MECHANICAL	DELLAN J. LLEWELLYN, PE
ELECTRICAL	KRISTEN SPINA, PE
TECHNOLOGY	DAMON M. DEEN

PIPING SHEET INDEX

MP000	PIPING COVERSHEET
MPD091	PIPE BASEMENT DEMOLITION PLAN - PIPING
MPD101	GROUND LEVEL FLOOR DEMOLITION PLAN - PIPING
MPD111	FIRST LEVEL DEMOLITION PLAN - PIPING
MPD151	FIFTH LEVEL DEMOLITION PLAN - PIPING
MP091	PIPE BASEMENT FLOOR PLAN - PIPING
MP101	GROUND LEVEL FLOOR PLAN - PIPING
MP111	INTERSTITIAL/FIRST LEVEL FLOOR PLAN - PIPING
MP121	ROOF PLAN - PIPING
MP400	PIPING DETAILS
MP401	PIPING DETAILS
MP500	STEAM FLOW DIAGRAM
MP501	HEATING WATER FLOW DIAGRAM
MP502	CHILLED WATER FLOW DIAGRAM
MP600	PIPING SCHEDULES
GRAND TOTAL:	15

PIPING SYMBOL LIST

NOT ALL SYMBOLS MAY APPLY.

SYMBOL:	DESCRIPTION:
CWR	CHILLED WATER RETURN
CWS	CHILLED WATER SUPPLY
DRAIN	DRAIN
GWR	GLYCOL WATER RETURN
GWS	GLYCOL WATER SUPPLY
HPC	HIGH PRESSURE CONDENSATE
HPS	HIGH PRESSURE STEAM
HWR	HEATING WATER RETURN
HWS	HEATING WATER SUPPLY
LIG	REFRIGERANT LIQUID
LPC	LOW PRESSURE CONDENSATE
LPS	LOW PRESSURE STEAM
PC	PUMPED CONDENSATE
SUC	REFRIGERANT SUCTION
SV	SAFETY RELIEF VENT
LAB	LAB VACUUM
PIPE CAP	PIPE CAP
PIPE DOWN	PIPE DOWN
PIPE UP OR UP/DOWN	PIPE UP OR UP/DOWN
PITCH PIPE IN DIRECTION	PITCH PIPE IN DIRECTION
DIRECTION OF FLOW IN PIPE	DIRECTION OF FLOW IN PIPE
DIELECTRIC CONNECTION	DIELECTRIC CONNECTION
UNION/FLANGE	UNION/FLANGE
SHUTOFF VALVE NORMALLY OPEN	SHUTOFF VALVE NORMALLY OPEN
SHUTOFF VALVE NORMALLY CLOSED	SHUTOFF VALVE NORMALLY CLOSED
THROTTLING VALVE	THROTTLING VALVE
BALANCING VALVE (NUMBER INDICATES GPM)	BALANCING VALVE (NUMBER INDICATES GPM)
AUTOMATIC BALANCING VALVE	AUTOMATIC BALANCING VALVE
CONTROL VALVE (THREE-WAY)	CONTROL VALVE (THREE-WAY)
CONTROL VALVE (TWO-WAY)	CONTROL VALVE (TWO-WAY)
CHECK VALVE	CHECK VALVE
BACKFLOW PREVENTER	BACKFLOW PREVENTER
SAFETY/RELIEF VALVE	SAFETY/RELIEF VALVE
PRESSURE REDUCING VALVE (LIQUID/GAS)	PRESSURE REDUCING VALVE (LIQUID/GAS)
PRESSURE REDUCING VALVE (STEAM)	PRESSURE REDUCING VALVE (STEAM)
PUMP	PUMP
VACUUM BREAKER	VACUUM BREAKER
"WYE" - STRAINER	"WYE" - STRAINER
"WYE" - STRAINER W/SHUTOFF VALVE AND HOSE CONNECTION WITH CAP	"WYE" - STRAINER W/SHUTOFF VALVE AND HOSE CONNECTION WITH CAP
FLEXIBLE CONNECTION	FLEXIBLE CONNECTION
PRESSURE/TEMPERATURE TEST PLUG	PRESSURE/TEMPERATURE TEST PLUG
REDUCER - REFERENCE SPECIFICATION FOR CONCENTRIC/ECCENTRIC AND FOT/FOB	REDUCER - REFERENCE SPECIFICATION FOR CONCENTRIC/ECCENTRIC AND FOT/FOB
SUCTION DIFFUSER WITH SUPPORT FOOT	SUCTION DIFFUSER WITH SUPPORT FOOT
AUTOMATIC AIR VENT	AUTOMATIC AIR VENT
MANUAL AIR VENT	MANUAL AIR VENT
DRAIN VALVE WITH HOSE CONNECTION AND CAP	DRAIN VALVE WITH HOSE CONNECTION AND CAP
PRESSURE SENSOR (FURNISHED WITH BALL VALVE)	PRESSURE SENSOR (FURNISHED WITH BALL VALVE)
PRESSURE GAUGE (FURNISHED WITH BALL VALVE)	PRESSURE GAUGE (FURNISHED WITH BALL VALVE)
FLOW METER	FLOW METER
FLOW SWITCH	FLOW SWITCH
TEMPERATURE SENSOR WITH WELL	TEMPERATURE SENSOR WITH WELL
THERMOMETER WITH WELL (DIAL TYPE)	THERMOMETER WITH WELL (DIAL TYPE)
THERMOMETER WITH WELL (FILLED TYPE)	THERMOMETER WITH WELL (FILLED TYPE)
STEAM TRAP (REFER TO SCHEDULE)	STEAM TRAP (REFER TO SCHEDULE)
F&T STEAM TRAP (REFER TO SCHEDULE)	F&T STEAM TRAP (REFER TO SCHEDULE)
INVERTED BUCKET STEAM TRAP (REFER TO SCHEDULE)	INVERTED BUCKET STEAM TRAP (REFER TO SCHEDULE)
ALIGNMENT GUIDE	ALIGNMENT GUIDE
PIPE ANCHOR	PIPE ANCHOR
METER	METER
TERMINAL AIR BOX W/REHEAT COIL (REFER TO SCHEDULE)	TERMINAL AIR BOX W/REHEAT COIL (REFER TO SCHEDULE)
HUMIDIFIER	HUMIDIFIER

PIPING ABBREVIATION KEY

ABBR:	DESCRIPTION:
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
DPS	DIFFERENTIAL PRESSURE SWITCH
EA	EXHAUST/RELIEF AIR
N.C.	NORMALLY CLOSED
NIC	NOT IN CONTRACT
N.O.	NORMALLY OPEN
OA	OUTSIDE AIR
PS	PRESSURE SWITCH
RA	RETURN AIR
SA	SUPPLY AIR
SCCR	SHORT CIRCUIT CURRENT RATING
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED

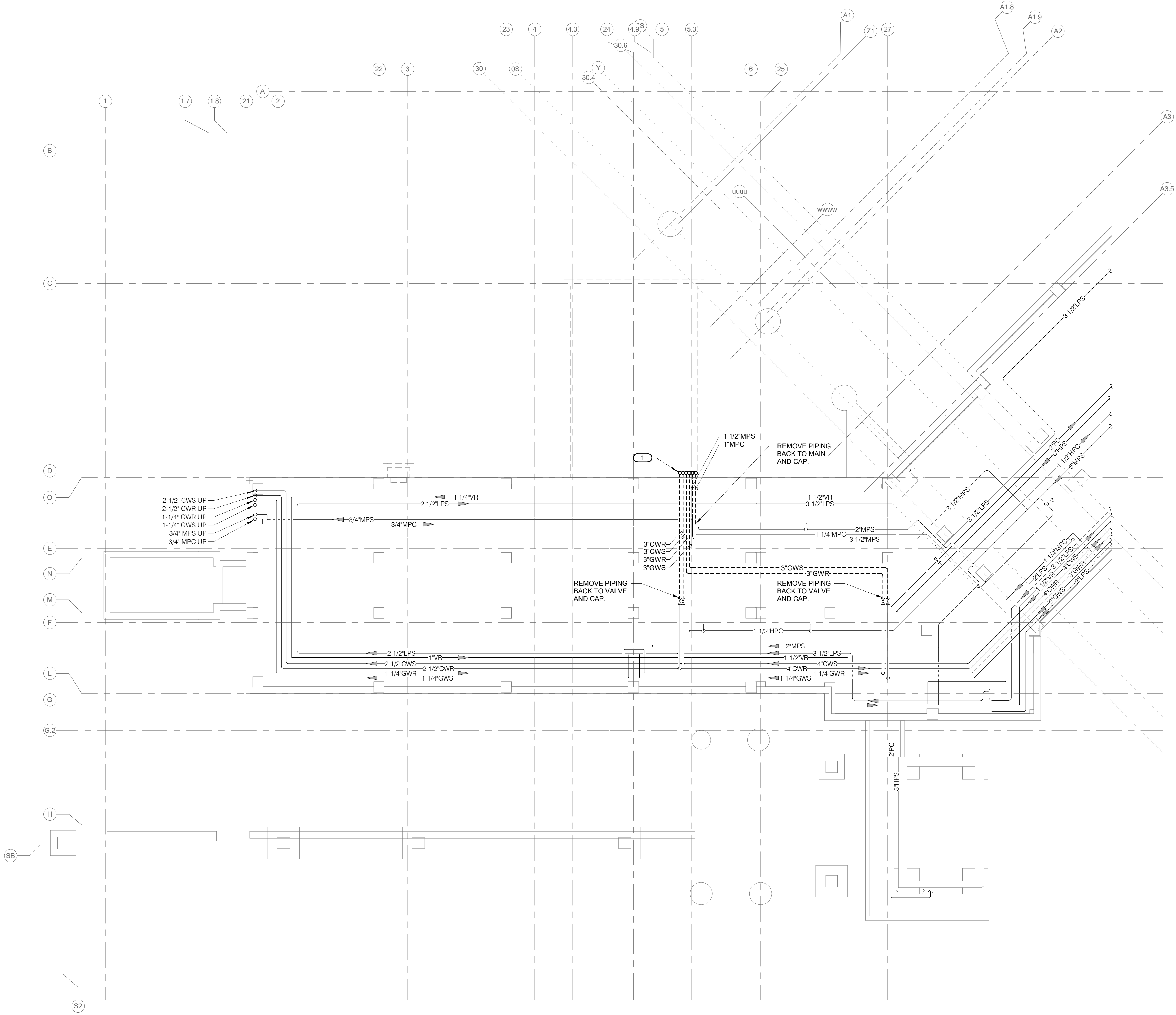
- ### MECHANICAL GENERAL NOTES:
- THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, FIRE PROTECTION, PLUMBING, VENTILATION, PIPING AND TEMPERATURE CONTROL.
- DRAWINGS SHOWING LOCATIONS OF EQUIPMENT, DUCTWORK, PIPING, ETC. ARE DIAGRAMMATIC AND MAY NOT ALWAYS REFLECT EXACT INSTALLATION CONDITIONS. DRAWINGS SHOW THE GENERAL ARRANGEMENT OF DUCTWORK, PIPING, EQUIPMENT, ETC., AND MAY NOT INCLUDE ALL OFFSETS AND FITTINGS REQUIRED FOR COMPLETE INSTALLATION. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND THE WORK OF OTHERS WILL PERMIT.
 - DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS AND CLEARANCES FROM ARCHITECTURAL, STRUCTURAL, SUBMITTALS, AND OTHER APPROPRIATE DRAWINGS OR PHYSICALLY AT SITE. REVIEW ALL DRAWINGS, INCLUDING THOSE OF OTHER TRADES.
 - COORDINATE ALL WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION TO PROVIDE CLEARANCES REQUIRED FOR OPERATION, MAINTENANCE, CODE COMPLIANCE, AND TO VERIFY NON-INTERFERENCE WITH OTHER WORK. DO NOT FABRICATE PRIOR TO VERIFICATION OF NECESSARY CLEARANCES FOR ALL TRADES. BRING ANY INTERFERENCES OR CONFLICTS TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH FABRICATION OR EQUIPMENT ORDERS.
 - REVIEW SPACE REQUIREMENTS OF EQUIPMENT SPECIFIED OR SUBSTITUTED AND MAKE REASONABLE ACCOMMODATIONS IN LAYOUT AND POSITIONING TO PROVIDE PROPER ACCESS.
 - ANY CHANGES REQUIRED TO ELIMINATE CONFLICTS OR THAT RESULT FROM A FAILURE TO COORDINATE SHALL BE MADE BY THE CONTRACTOR WITHOUT ADDITIONAL COST OR EXPENSE TO OTHERS.
 - EACH CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH ELECTRICAL CHANGES REQUIRED FOR EQUIPMENT PROPOSED THAT DIFFERS FROM THE BASIS OF DESIGN.
 - REFER TO ARCHITECTURAL REFLECTED CEILING PLAN, ELECTRICAL TECHNOLOGY AUDIVISUAL, AND OTHER MECHANICAL PLANS FOR EXACT LOCATIONS OF ALL CEILING MOUNTED DEVICES, OTHER THAN SPRINKLERS.
 - EACH CONTRACTOR IS RESPONSIBLE FOR DAMAGE CAUSED BY THEIR ACTIONS TO WALLS, FLOORS, CEILINGS AND ROOFS. THE CONTRACTOR WHOSE WORK CAUSES DAMAGE IS RESPONSIBLE FOR PATCHING TO MATCH ORIGINAL CONSTRUCTION, FIRE RATING, AND FINISH.
 - IN AREAS WITH DRYWALL CEILINGS COORDINATE LOCATIONS OF ACCESS PANELS WITH THE GC FOR ACCESS TO VALVES, DUCTWORK ACCESSORIES, DAMPERS, ETC. COORDINATE PANEL TYPE AND COLOR WITH ARCHITECT. NOTIFY THE GC OF THE REQUIRED ACCESS PANELS PRIOR TO BIDDING.
 - SEAL ALL FLOOR, WALL, AND ROOF PENETRATIONS AIRTIGHT WHERE CONDUITS, PIPING, AND DUCTS PENETRATE. PENETRATIONS THROUGH EXTERIOR WALLS AND ROOF SHALL BE SEALED AIRTIGHT WITH WATERPROOFING MATERIALS RECOMMENDED BY MANUFACTURER FOR OUTDOOR USE.
 - CAULK ALL PIPE AND DUCT PENETRATIONS OF FULL HEIGHT NON-FIRE RATED WALL, PARTITION, FLOOR, AND ROOF ASSEMBLIES. THIS IS ESSENTIAL TO PREVENT NOISE TRANSMISSION FROM ONE ROOM TO ANOTHER AND TO PROVIDE THE DESIRED NC LEVELS WITHIN ROOMS.
 - WHERE PIPES AND DUCTS ARE SHOWN TO PENETRATE FLOORS, PROVIDE SLEEVED OPENINGS WITH THE TOP EDGE RAISED ABOVE FLOOR SURFACE IN ACCORDANCE WITH ALL RELEVANT SPEC SECTIONS. SEAL SLEEVE PERIMETER TO BE WATER TIGHT.
 - EQUIPMENT SIZES AND SERVICE CLEARANCE REQUIREMENTS VARY AMONG DIFFERENT MANUFACTURERS. CONSULT APPROVED SHOP DRAWINGS FOR EQUIPMENT SIZES AND REQUIRED SERVICE CLEARANCES. COORDINATE WITH LAYOUT OF EQUIPMENT PADS, PIPING, DUCTWORK, ETC.
 - DO NOT BLOCK TUBE PULL OR EQUIPMENT SERVICE CLEARANCES.
 - MAINTAIN A MINIMUM WORKING CLEARANCE OF 3'-0" IN FRONT OF ALL ELECTRICAL EQUIPMENT REQUIRING MAINTENANCE, INSPECTION, AND TESTING INCLUDING BUT NOT LIMITED TO PANELS, DISTRIBUTION PANELS, SWITCHBOARDS, MOTOR CONTROL CENTERS, TRANSFORMERS, EQUIPMENT DISCONNECTS AND STARTERS.
 - MAINTAIN THE DEDICATED ELECTRICAL EQUIPMENT SPACE DEFINED BY THE WIDTH / DEPTH OF ELECTRICAL EQUIPMENT MEASURED FROM THE FLOOR TO A HEIGHT 6'-0" ABOVE THE EQUIPMENT OR THE STRUCTURAL CEILING, WHICHEVER IS LOWER. SYSTEMS FOREIGN TO THE ELECTRICAL DISTRIBUTION SYSTEM ARE NOT ALLOWED IN THE DEDICATED ELECTRICAL SPACE INCLUDING: DUCTWORK, PIPING, ETC.
 - PROVIDE CONCRETE EQUIPMENT PAD FOR ALL FLOOR MOUNTED EQUIPMENT. PAD SHALL EXTEND MINIMUM 6" BEYOND ALL SIDES OF EQUIPMENT.
 - DO NOT SUPPORT EQUIPMENT, PIPING, OR DUCTWORK FROM METAL DECKING OR OTHER NON-STRUCTURAL BUILDING ELEMENTS. ANCHORS EMBEDDED IN CONCRETE SHALL BE CRACKED CONCRETE APPROVED IN ACCORDANCE WITH SPECIFICATIONS.

- ### MECHANICAL RENOVATION NOTES:
- THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, FIRE PROTECTION, PLUMBING, VENTILATION, PIPING AND TEMPERATURE CONTROL.
- EXISTING CONDITIONS ARE SHOWN BASED ON INFORMATION OBTAINED FROM FIELD SURVEYS, EXISTING BUILDING DOCUMENTS, AND STAFF. VERIFY EXISTING CONDITIONS AND REPORT ANY CONFLICTS BEFORE PROCEEDING.
 - NOT ALL EXISTING DUCTWORK AND PIPING IS SHOWN. VERIFY EXISTING CONDITIONS BEFORE STARTING WORK. NOTIFY ENGINEER OF ANY CONFLICTS WITH NEW WORK.
 - FIELD VERIFY THE AVAILABLE CLEARANCES FOR DUCTWORK AND PIPING BEFORE FABRICATION. RISES AND DROPS MAY BE NECESSARY BECAUSE OF EXISTING FIELD CONDITIONS.
 - EACH CONTRACTOR SHALL FIELD VERIFY ACCESSIBILITY TO THE AREA OF THEIR WORK AND SHALL NOTIFY THE GENERAL CONTRACTOR PRIOR TO BIDDING IF OTHER UTILITIES ARE REQUIRED TO BE REMOVED OR RELOCATED TO ALLOW ACCESS TO THEIR AREA OF WORK. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR CUTTING, REMOVAL AND PATCHING OF ROOFS, WALLS, AND FLOORS ASSOCIATED WITH WORK BY ALL CONTRACTORS. CONTRACTORS SHALL NOTIFY THE GC OF AFFECTED AREAS PRIOR TO BIDDING.
 - THE GENERAL CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF CEILINGS, CEILING TILES, AND CEILING GRIDS ASSOCIATED WITH AREAS OF WORK BY ALL CONTRACTORS. NOTIFY THE GENERAL CONTRACTOR OF AFFECTED AREAS PRIOR TO BIDDING.
 - WHERE EXISTING MECHANICAL SYSTEMS ARE LOCATED IN AREAS THAT CONFLICT WITH NEW EQUIPMENT, PIPING, OR DUCTWORK TO BE INSTALLED, EACH CONTRACTOR SHALL EITHER ARRANGE NEW EQUIPMENT, PIPING, OR DUCTWORK IN SUCH A FASHION THAT IT DOES NOT CONFLICT WITH EXISTING SYSTEMS, OR REWORK EXISTING MECHANICAL SYSTEMS TO ALLOW FOR INSTALLATION OF NEW EQUIPMENT, PIPING, OR DUCTWORK.
 - PROVIDE TEMPORARY CONNECTIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING CONSTRUCTION. MAINTAIN ACCESS TO EXISTING MECHANICAL INSTALLATIONS THAT REMAIN ACTIVE.
 - OBTAIN PERMISSION FROM OWNER BEFORE SHUTTING DOWN ANY SYSTEM FOR ANY REASON. MAINTAIN SERVICE TO ALL COMPONENTS THAT ARE TO REMAIN UNTIL NEW SYSTEMS ARE INSTALLED.
 - MAINTAIN EXISTING SYSTEM IN SERVICE UNTIL NEW SYSTEM IS COMPLETE AND READY FOR TIE IN AND SWITCHOVER. DRAIN SYSTEM ONLY TO MAKE SWITCHOVERS AND CONNECTIONS. OBTAIN PERMISSION FROM OWNER BEFORE PARTIALLY OR COMPLETELY DRAINING SYSTEM. MAKE CHANGEOVER TO NEW SYSTEMS WITH MINIMUM OUTAGE.
 - DISCONNECT AND REMOVE MECHANICAL DEVICES AND EQUIPMENT SERVING EQUIPMENT THAT HAS BEEN REMOVED.

- ### PIPING GENERAL NOTES:
- THE SIZE OF BRANCH PIPING TO TERMINAL HEATING DEVICES AND COILS SHALL BE 3/4" UNLESS NOTED OTHERWISE.
 - PIPE DRAIN LINES FROM EQUIPMENT TO NEAREST PIPING DRAIN.
 - INSTALL ALL REFRIGERANT LIQUID AND SUCCTION PIPING SIZED PER EQUIPMENT MANUFACTURER RECOMMENDATIONS.

Revisions: Date:	CONSULTANT 2802 100TH STREET DES MOINES, IA 50325 515.334.9900 FAX: 515.334.9908 www.imegcorp.com PROJECT # 19004249.04 <small>IMEG CORP. RESERVES PROPRIETARY RIGHTS, INCLUDING COPYRIGHTS, TO THIS DRAWING AND THE DATA SHOWN THEREON. THIS DRAWING AND/OR DATA ARE THE EXCLUSIVE PROPERTY OF IMEG CORP. AND SHALL NOT BE USED OR REPRODUCED FOR ANY OTHER PROJECT WITHOUT THE EXPRESS WRITTEN APPROVAL AND PARTICIPATION OF IMEG CORP. © 2025 IMEG CORP.</small>	ARCHITECT/ENGINEER OF RECORD 13605 1st Ave. N. #100 Plymouth, MN 55441 P 763.412.4000 F 763.412.4090 ae-mn.com Anderson Engineering of Minnesota, LLC Proj # 16584	STAMP 	Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title PIPING COVERSHEET	Phase BID DOCUMENTS	Project Title CONSTRUCT NEW SPS	Project Number 438-460	
					Approved:	FULLY SPRINKLERED	Location Sioux Falls, SD.	Building Number 5	
						Issue Date 02/14/2025	Checked DAVING	Drawn DELLE	Drawing Number MP000

- GENERAL PIPING DEMOLITION NOTES:**
1. REFERENCE MP000 - PIPING COVERSHEET FOR PIPING SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES.
 2. EXISTING CONDITIONS ARE SHOWN BASED ON INFORMATION OBTAINED FROM FIELD SURVEYS, EXISTING BUILDING DOCUMENTS, AND STAFF. VERIFY EXISTING CONDITIONS AND REPORT ANY CONFLICTS BEFORE PROCEEDING.
 3. COMPLETE LAYOUT DRAWINGS SHALL BE REQUIRED BY SPECIFICATION SECTION 23 05 11. CONSTRUCTION WORK SHALL NOT BEGIN UNTIL SYSTEM LAYOUT DRAWINGS HAVE BEEN APPROVED BY THE C.O.R.
 4. CONTRACTOR SHALL MINIMIZE DOWNTIME OF EXISTING SYSTEMS BY INSTALLING NEW SYSTEMS PRIOR TO TYING INTO EXISTING. NOTIFY C.O.R. A MINIMUM OF 24 HOURS PRIOR TO SYSTEM SHUTDOWN.
 5. DEMOLISH ALL EXISTING HANGERS, INSULATION, DAMPERS, AND ACCESSORIES ASSOCIATED WITH MECHANICAL EQUIPMENT. DUCTWORK, AND PIPING SHOWN TO BE REMOVED ON THESE PLANS UNLESS OTHERWISE NOTED.
 6. DEMOLISH ALL EXISTING CONTROL DEVICES, WIRING, AND CONDUIT ASSOCIATED WITH MECHANICAL EQUIPMENT SHOWN TO BE REMOVED ON THESE PLANS UNLESS OTHERWISE NOTED.
 7. NOT ALL MECHANICAL DEMOLITION IS EXPLICITLY SHOWN ON THE DRAWING. CONTRACTOR SHALL CONFIRM EXTENT OF DEMOLITION AT THE SITE.
- KEYNOTES: #**
1. REMOVE CHILLED WATER, HEATING WATER, STEAM, AND CONDENSATE UP THROUGH SLAB INTO EXISTING MECHANICAL ROOM.



1 PIPE BASEMENT DEMOLITION PLAN - PIPING
 1/8" = 1'-0"
 NORTH

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 2/14/2025 10:27:39 AM
 VA FORM 08 - 6231

Revisions:	Date:

CONSULTANT

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 PROJECT # 19004249.04

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REFERENCE SCALE IN INCHES
 0 1 2 3

ARCHITECT/ENGINEER OF RECORD

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 Anderson Engineering of Minnesota, LLC | Proj # 16684

STAMP

Professional Engineer
 ILLIAN J. LLEWELLYN
 27052
 2/14/25
 IOWA

Office of
 Construction
 and Facilities
 Management

VA U.S. Department
 of Veterans
 Affairs

Drawing Title
**PIPE BASEMENT DEMOLITION
 PLAN - PIPING**

Approved:

Phase
BID DOCUMENTS

FULLY SPRINKLERED

Project Title
CONSTRUCT NEW SPS

Location
Sioux Falls, SD.

Issue Date
02/14/2025

Checked
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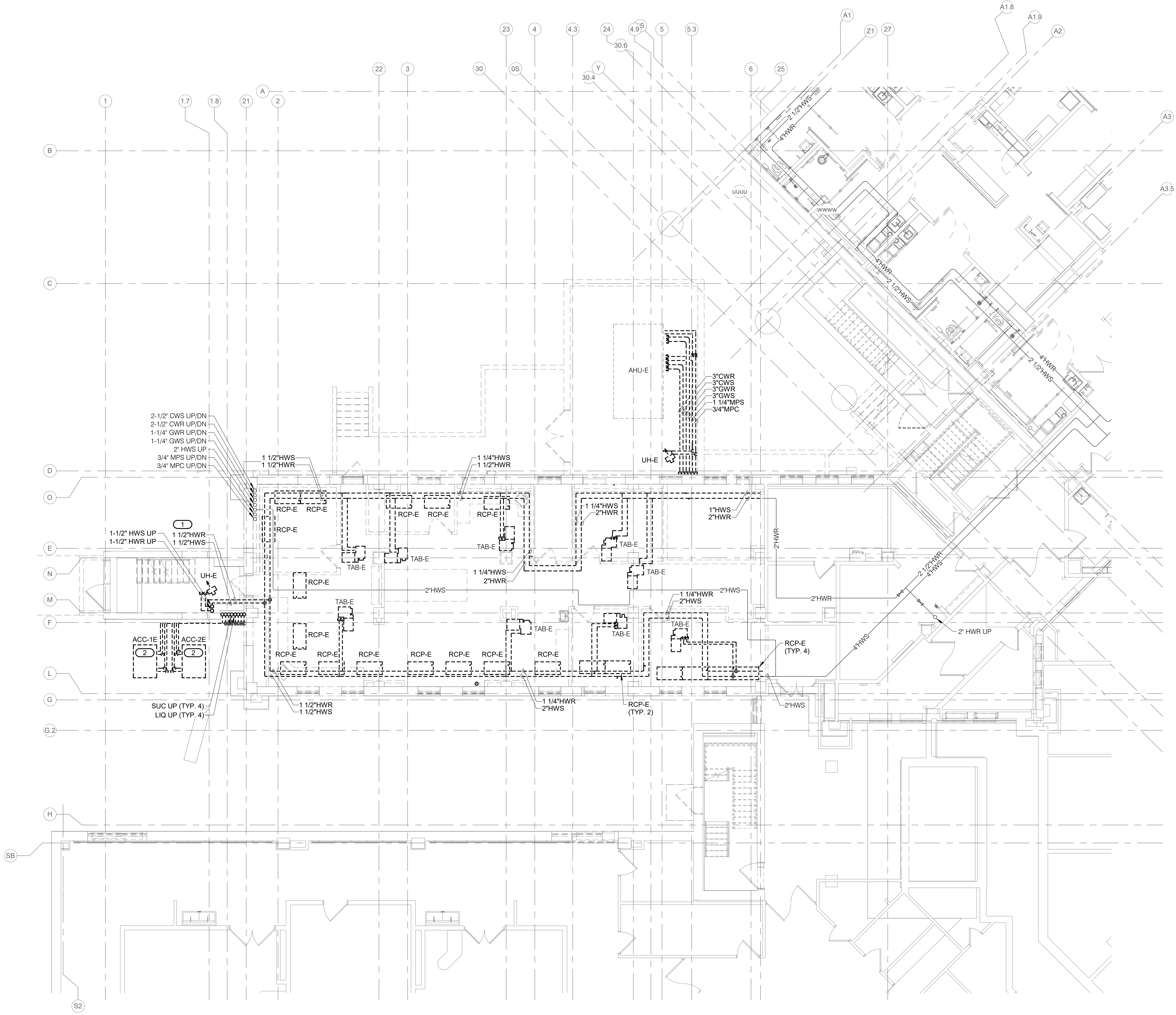
Drawn
DELLE

Project Number
438-460

Building Number
5

Drawing Number
MPD091

- GENERAL PIPING DEMOLITION NOTES:**
1. REFERENCE MP000 - PIPING COVERSHEET FOR PIPING SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES.
 2. EXISTING CONDITIONS ARE SHOWN BASED ON INFORMATION OBTAINED FROM FIELD SURVEYS, EXISTING BUILDING DOCUMENTS, AND STAFF. VERIFY EXISTING CONDITIONS AND REPORT ANY CONFLICTS BEFORE PROCEEDING.
 3. COMPLETE LAYOUT DRAWINGS SHALL BE REQUIRED BY SPECIFICATION SECTION 23 05 11. CONSTRUCTION WORK SHALL NOT BEGIN UNTIL SYSTEM LAYOUT DRAWINGS HAVE BEEN APPROVED BY THE C.O.R.
 4. CONTRACTOR SHALL MINIMIZE DOWNTIME OF EXISTING SYSTEMS BY INSTALLING NEW SYSTEMS PRIOR TO TYING INTO EXISTING. NOTIFY C.O.R. A MINIMUM OF 24 HOURS PRIOR TO SYSTEM SHUTDOWN.
 5. DEMOLISH ALL EXISTING HANGERS, INSULATION, DAMPERS, AND ACCESSORIES ASSOCIATED WITH MECHANICAL EQUIPMENT, DUCTWORK, AND PIPING SHOWN TO BE REMOVED ON THESE PLANS UNLESS OTHERWISE NOTED.
 6. DEMOLISH ALL EXISTING CONTROL DEVICES, WIRES, AND CONDUIT ASSOCIATED WITH MECHANICAL EQUIPMENT SHOWN TO BE REMOVED ON THESE PLANS UNLESS OTHERWISE NOTED.
 7. NOT ALL MECHANICAL DEMOLITION IS EXPLICITLY SHOWN ON THE DRAWING. CONTRACTOR SHALL CONFIRM EXTENT OF DEMOLITION AT THE SITE.
- KEYNOTES: #**
1. EXISTING HEATING WATER PIPING IS ROUTED ON FLOOR IN STAIRWELL PRIOR TO RISING UP STAIR TOWER. REMOVE PIPING ROUTED ON FLOOR AND PREPARE RISERS ABOVE GROUND FLOOR FOR NEW CONNECTION.
 2. EXISTING AIR-COOLED CONDENSING UNITS PREVIOUSLY SERVED A MODULAR CHILLER LOCATED IN THE 5TH LEVEL ATTIC SPACE WHICH HAS BEEN TRANSITIONED TO A NEW COOLING TOWER. CHILLERS SHALL BE REMOVED FROM EXISTING LOCATION. COORDINATE REMOVAL OF CHILLERS WITH CONTRACTING OFFICER'S REPRESENTATIVE. PROPERLY RECLAIM AND DISPOSE OF ALL REFRIGERANT.



PIPING FOR FOUR REFRIGERANT CIRCUITS UP EXTERIOR WALL TO ATTIC

- REMOVE POWER AND CONTROLS CONDUITS. COORDINATE WITH ELECTRICAL CONTRACTOR.
- REMOVE REFRIGERANT PIPING.
- REMOVE PIPE SUPPORT BRACKETS. COORDINATE WALL PATCHING WITH ARCHITECT.

1 GROUND LEVEL FLOOR DEMOLITION PLAN - PIPING
1/8" = 1'-0"

2 EXISTING REFRIGERANT PIPING DEMOLITION DETAIL
1/2" = 1'-0"

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 2/14/2025 10:27:46 AM

Revisions:	Date:

CONSULTANT

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REFERENCE SCALE IN INCHES
0 1 2 3

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STAMP

PROFESSIONAL ENGINEER
DELLAN J. LLEWELLYN
27052
IOWA

Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

Drawing Title
GROUND LEVEL FLOOR DEMOLITION PLAN - PIPING

Approved:

Phase
BID DOCUMENTS

FULLY SPRINKLERED

Project Title
CONSTRUCT NEW SPS

Location
Sioux Falls, SD.

Issue Date
02/14/2025

Checked
DAVING

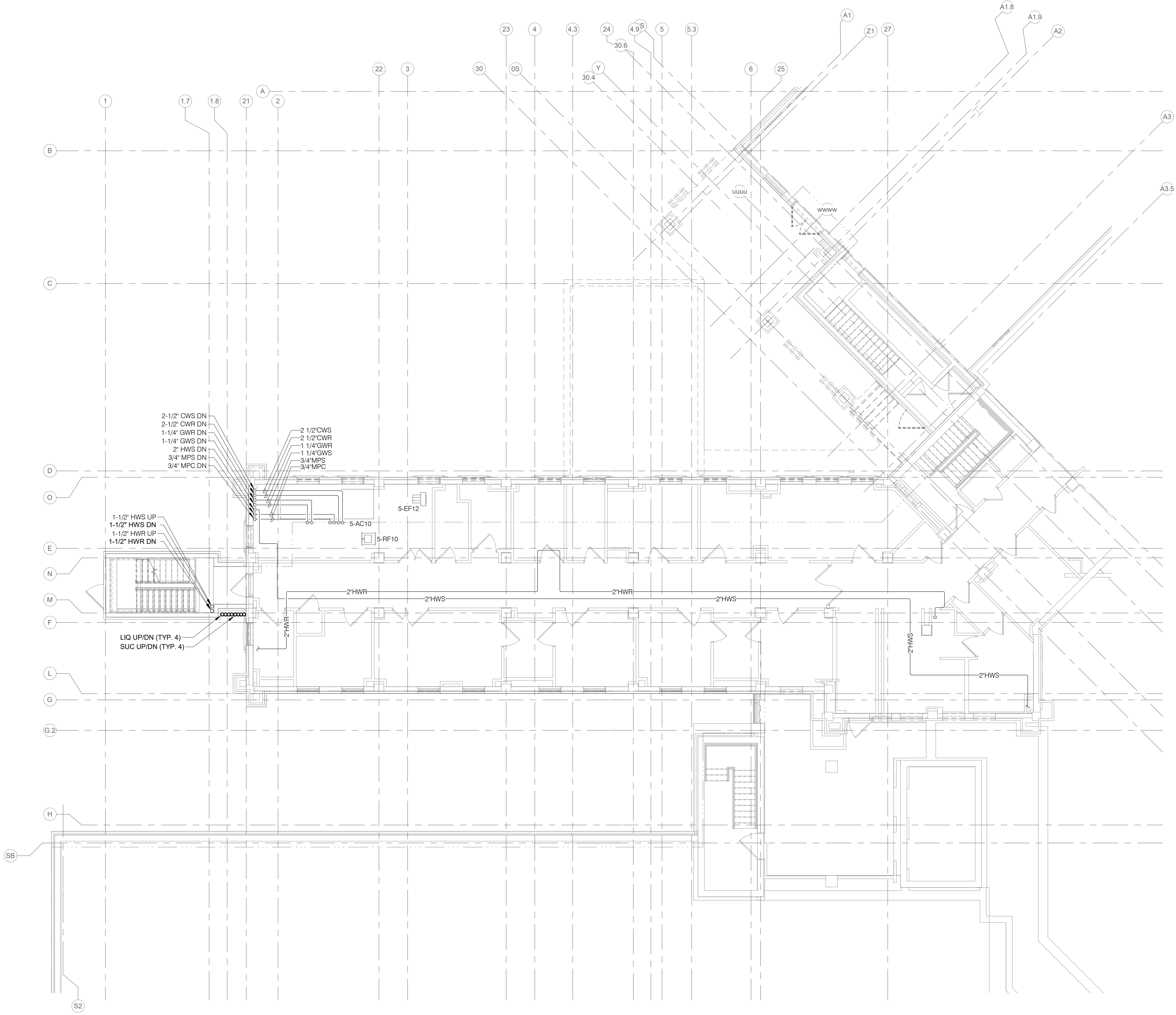
Drawn
DELLE

Project Number
438-460

Building Number
5

Drawing Number
MPD101

- GENERAL PIPING DEMOLITION NOTES:**
1. REFERENCE MP000 - PIPING COVERSHEET FOR PIPING SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES.
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 4. CONTRACTOR SHALL MINIMIZE DOWNTIME OF EXISTING SYSTEMS BY INSTALLING NEW SYSTEMS PRIOR TO TYING INTO EXISTING. NOTIFY C.O.S. A MINIMUM OF 24 HOURS PRIOR TO SYSTEM SHUTDOWN.
 5. DEMOLISH ALL EXISTING HANGERS, INSULATION, DAMPERS, AND ACCESSORIES ASSOCIATED WITH MECHANICAL EQUIPMENT, DUCTWORK, AND PIPING SHOWN TO BE REMOVED ON THESE PLANS UNLESS OTHERWISE NOTED.
 6. DEMOLISH ALL EXISTING CONTROL DEVICES, WIRING, AND CONDUIT ASSOCIATED WITH MECHANICAL EQUIPMENT SHOWN TO BE REMOVED ON THESE PLANS UNLESS OTHERWISE NOTED.
 7. NOT ALL MECHANICAL DEMOLITION IS EXPLICITLY SHOWN ON THE DRAWING. CONTRACTOR SHALL CONFIRM EXTENT OF DEMOLITION AT THE SITE.



1 FIRST LEVEL DEMOLITION PLAN - PIPING
1/8" = 1'-0"

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 VA FORM 08 - 6231

Revisions:	Date:

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REFERENCE SCALE IN INCHES
0 1 2 3

ARCHITECT/ENGINEER OF RECORD

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STAMP

Professional Engineer
DELLAN J. LLEWELLYN
27052
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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
FIRST LEVEL DEMOLITION PLAN - PIPING

Approved:

Phase
BID DOCUMENTS

FULLY SPRINKLERED

Project Title
CONSTRUCT NEW SPS

Location
Sioux Falls, SD.

Issue Date
02/14/2025

Checked
DAVING

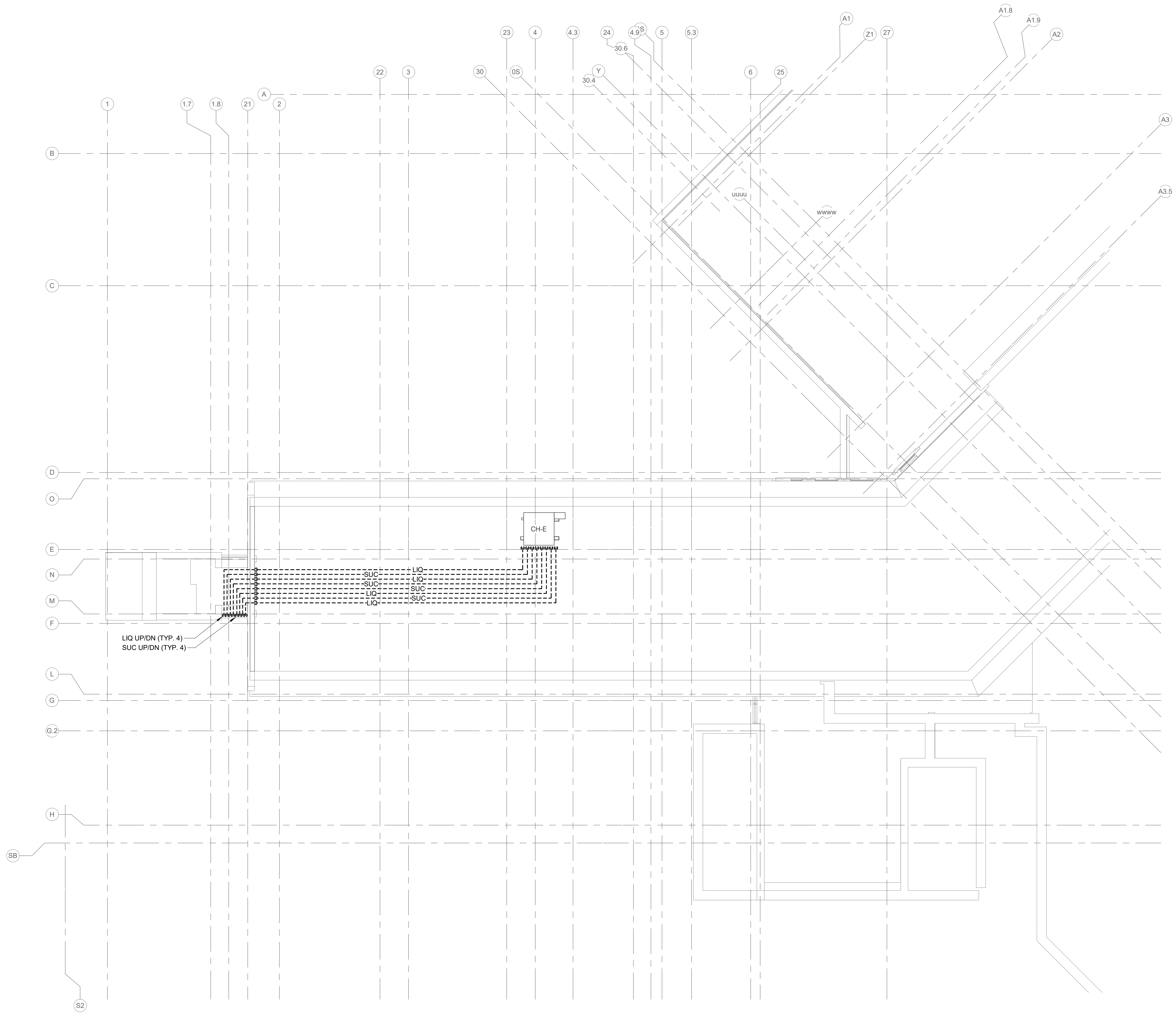
Drawn
DELLE

Project Number
438-460

Building Number
5

Drawing Number
MPD111

- GENERAL PIPING DEMOLITION NOTES:**
1. REFERENCE MP000 - PIPING COVERSHEET FOR PIPING SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES.
 2. EXISTING CONDITIONS ARE SHOWN BASED ON INFORMATION OBTAINED FROM FIELD SURVEYS, EXISTING BUILDING DOCUMENTS, AND STAFF. VERIFY EXISTING CONDITIONS AND REPORT ANY CONFLICTS BEFORE PROCEEDING.
 3. COMPLETE LAYOUT DRAWINGS SHALL BE REQUIRED BY SPECIFICATION SECTION 23 05 11. CONSTRUCTION WORK SHALL NOT BEGIN UNTIL SYSTEM LAYOUT DRAWINGS HAVE BEEN APPROVED BY THE C.O.R.
 4. CONTRACTOR SHALL MINIMIZE DOWNTIME OF EXISTING SYSTEMS BY INSTALLING NEW SYSTEMS PRIOR TO TYING INTO EXISTING. NOTIFY C.O.R. A MINIMUM OF 24 HOURS PRIOR TO SYSTEM SHUTDOWN.
 5. DEMOLISH ALL EXISTING HANGERS, INSULATION, DAMPERS, AND ACCESSORIES ASSOCIATED WITH MECHANICAL EQUIPMENT, DUCTWORK, AND PIPING SHOWN TO BE REMOVED ON THESE PLANS UNLESS OTHERWISE NOTED.
 6. DEMOLISH ALL EXISTING CONTROL DEVICES, WIRING, AND CONDUIT ASSOCIATED WITH MECHANICAL EQUIPMENT SHOWN TO BE REMOVED ON THESE PLANS UNLESS OTHERWISE NOTED.
 7. NOT ALL MECHANICAL DEMOLITION IS EXPLICITLY SHOWN ON THE DRAWING. CONTRACTOR SHALL CONFIRM EXTENT OF DEMOLITION AT THE SITE.



1 FIFTH LEVEL DEMOLITION PLAN - PIPING
 1/8" = 1'-0"

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 H
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Revisions:	CONSULTANT	ARCHITECT/ENGINEER OF RECORD	STAMP	Office of Construction and Facilities Management	Drawing Title	Phase	Project Title	Project Number
	 <small>2602 100TH STREET DES MOINES, IA 50325 515.334.9900 FAX: 515.334.9908 www.imeg.com PROJECT # 19004249.04</small>	 <small>13605 1st Ave. N. #100 Plymouth, MN 55441 P 763.412.4000 F 763.412.4090 ae-mn.com Anderson Engineering of Minnesota, LLC Proj # 16684</small>		 U.S. Department of Veterans Affairs	FIFTH LEVEL DEMOLITION PLAN - PIPING	BID DOCUMENTS	CONSTRUCT NEW SPS	438-460
Date:					Approved:	FULLY SPRINKLERED	Location	Building Number
							Sioux Falls, SD.	5
							Issue Date	Drawing Number
							02/14/2025	MPD151
							Checked	Drawn
							DAVING	DELLE